



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVE
NEW ORLEANS, LA 70118-3651

July 17, 2023

Regulatory Division
Western Evaluation Branch

Project Manager:
Johnny Duplantis
(504) 862-2548
johnny.j.duplantis@usace.army.mil

Application #: MVN-2022-00728-WPP

PUBLIC NOTICE

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344), and/or [X] Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. Section 408).

FLOOD PROTECTION LEVEE CONSTRUCTION IN TERREBONNE PARISH

NAME OF APPLICANT: Terrebonne Levee & Conservation District, c/o: GIS Engineering, LLC, 2503 Petroleum Drive, Suite 110, Houma, Louisiana 70363.

LOCATION OF WORK: Located in Terrebonne Parish, along La. Highway 182, Bayou Black and Geraldine Road, near the communities of Houma and Gibson, Louisiana, (lat. 29.590575, long. -90.8309972), as shown within the enclosed drawings. (Hydrologic Unit Code 8090301, Barataria Watershed).

The work described below was partially completed prior to obtaining a Department of the Army permit and was in violation of Section 301 of the Clean Water Act. All legal issues concerning the unauthorized work have since been deferred.

CHARACTER OF WORK: This proposal is for Department of The Army authorization to construct four flood protection levees referred to as the Bayou Black Barrier Levee project (BBBL), Reaches 1, 2, 3, and 4, all as part of the Morganza to Gulf Flood Protection System. The project was originally placed on 20-day public notice (PN) on October 11, 2021. Due to updates on the overall BBBL proposal, combination of multiple levees and applications into a single application, and the length of time since the original posting, a secondary PN is being issued. The project stretches from LA 182 in Gibson heading southeasterly towards the Minors Canal outfall ending at the

Gulf Intracoastal Waterway (GIWW). The project includes construction of an approximate 19 mile long levee system with a proposed barge gate and gate section along the GIWW, and is intended to help prevent flooding of human habitable areas, commercial properties, agricultural areas, and to maintain and regulate drainage channels within the protected area. Fill operations includes the deposition of approximately 772,698 cy of material, and excavation of approximately 7,940 cy of on-site material. The levees will be constructed to Elevation of +7.0 and will have a 3H:1V side slope. The project includes a total of 60.68 acres of direct impacts to jurisdictional Bottomland Hardwoods wetlands and 47.63 acres of direct impacts to jurisdictional Cypress Tupelo wetlands. All 4 levee reaches are described further in detail in the enclosed drawings. If a Department of the Army permit is found to be in the public interest, the applicant has proposed to mitigate unavoidable wetlands impacts at an approved and acceptable mitigation bank or banks within the N.O. District.

The applicant may be required to fully or partially restore the site to pre-project conditions if issuance of a permit is determined to be contrary to the public interest.

The comment period on the requested Department of the Army Permit will close **20 days** from the date of this public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit request, and must be submitted so as to be received before or by the last day of the comment period. Letters and/or comments concerning the subject permit application must reference the Applicant's Name and the Permit Application Number and can be preferably emailed to the Corps of Engineer's project manager listed above or forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY DIVISION, RGW, Johnny Duplantis.** Individuals or parties may also request an extension of time in which to comment on the proposed work by mail or preferably by emailing the specified project manager listed above. Any request for an extension of time to comment must be specific and substantively supportive of the requested extension and received by this office prior to the end of the initial comment period. The Branch Chief will review the request and the requester will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous and inclusive of the initial comment period and will not exceed a total of 30 calendar days. This public notice is also available for review online at <https://go.usa.gov/xennJ>

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and

wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

This request will also be reviewed pursuant to Section 408 and USACE Engineering Circular (EC) 1165-2-220, which provides policy and procedural guidance for processing requests to alter USACE civil works projects. The decision whether to grant permission for the requested alteration will be based on several factors. The benefits that reasonably may be expected to accrue from the proposal will be balanced against its reasonably foreseeable detriments. Review of the requests for modification will be reviewed by a USACE technical review team considering the following factors:

1) Potential to Impair the Usefulness of the Project. Proposed alterations will be reviewed to determine whether the alteration would limit the ability of the USACE project to function as authorized, or would compromise or change any authorized project conditions, purposes, or outputs. If USACE determines that the usefulness of the authorized project would be impaired, the request will be denied.

2) Potential to be Injurious to the Public Interest. Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. This evaluation will consider information received from the interested parties, including tribes, agencies, and the public. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

The Section 408 review will consider the potential impact to the usefulness of the Federal project and whether the proposed alteration would be injurious to the public interest. Policy and legal compliance will also be considered.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is presently unaware of properties listed on the National Register of Historic Places at or near the proposed work but is pending further review in accordance with the National Historic Preservation Act. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. As deemed necessary, copies of this public notice will be sent to the State Archeologist, State Historic Preservation Officer, and federally listed tribes regarding potential impacts to cultural resources.

Based on the Information Planning and Consultation (IPaC) tool for Endangered Species in Louisiana, as signed on January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, it has been determined that the project is located in habitat known to be utilized by the Western Manatee (*Trichechus manatus*) and the Eastern Black Rail (*Laterallus jamaicensis* ssp. *jamaicensis*), and determined that the activity is not likely to adversely affect these species. If the DA permit is approved, the permittee will be required to follow the IPaC mitigative conditions for the Western Manatee (*Trichechus manatus*) and the Eastern Black Rail (*Laterallus jamaicensis* ssp. *jamaicensis*).

Our initial finding is that the proposed work would have no effect on any species listed as endangered by the U.S. Department of Commerce, nor affect any habitat designated as critical to the survival and recovery of any such species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction, alteration, and/or disturbance of **47.63 acres** of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. *Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Louisiana Department of Environmental Quality before a Department of the Army permit could be issued.*

Any person may request within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state with particularity, the reasons for holding a public hearing, and can be preferably emailed to the USACE project manager listed above or mailed to the address listed above.

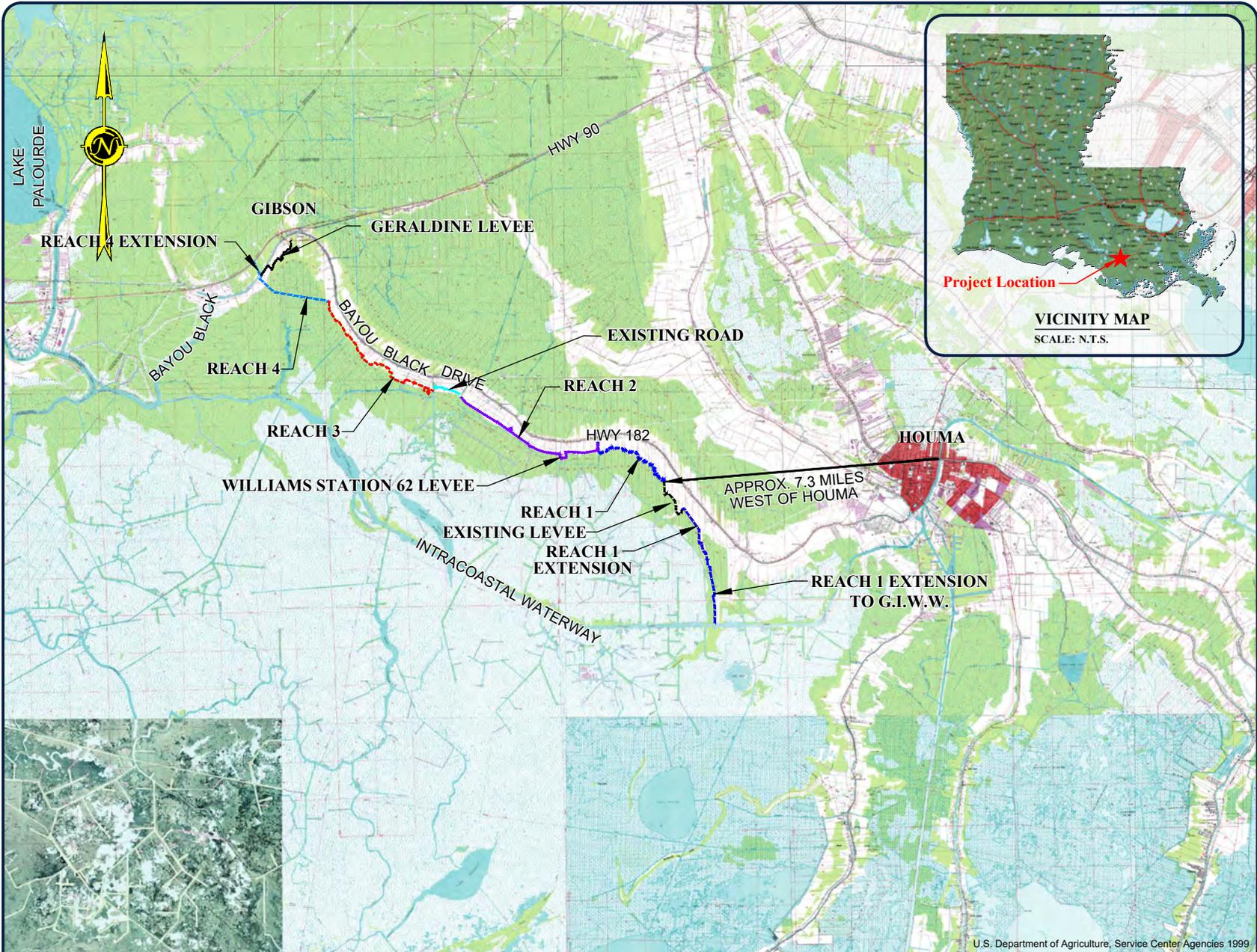
The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana

Department of Natural Resource's Coastal Resources Program (Application # P20220353). The Department of the Army permit will not be issued unless the applicant receives approval or a waiver of the Coastal Use Permit by the Louisiana Department of Natural Resources.

You are invited to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Darrell S. Barbara
Chief, Western Evaluation Branch
Regulatory Division

Enclosures




ENGINEERING LLC
Coastal Design & Infrastructure
197 Elysian Drive
Houma, LA 70363
O: (985) 219-1000 | F: (985) 475-7014
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REVISIONS		
No.	Description	Date

FOR PERMIT APPLICATION ONLY

ENGINEER'S NAME
LA. LICENSE NO. 00000

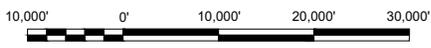
TERREBONNE LEVEE
CONSOLIDATION DISTRICT

BAYOU BLACK
BARRIER LEVEE SYSTEM

VICINITY MAP

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



M:\Department_39\Client\TGD-Terrebonne Levee\294- General Engineering (2021)\400- Execution\460- Drawings\461- DWG\Bayou Black Barrier Levee\COO.DWG,3-27-2023-revisions\VICINITY_MAP.dwg



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ENGINEER'S NAME
 LA. LICENSE NO. 00000

TERREBONNE LEVEE CONSOLIDATION DISTRICT
 BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 4 LEVEE

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	May 1, 2023

02



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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No.	Description	Date

PERMIT ONLY

THESE DRAWINGS TO BE USED EXCLUSIVELY FOR
 ACQUIRING REGULATORY PERMITS

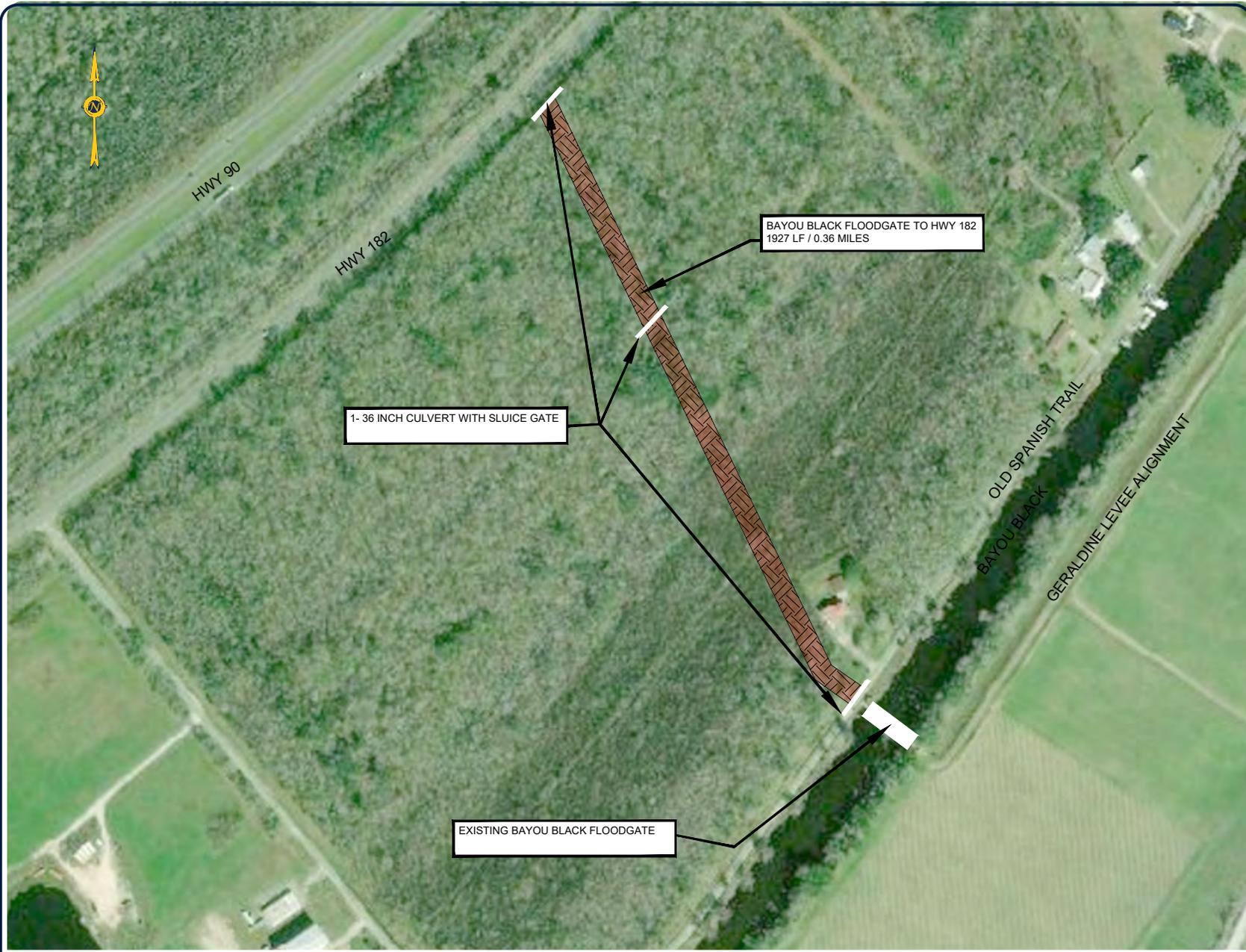
ENGINEER'S NAME
 LA. LICENSE NO. 00000

**BAYOU BLACK
 2019 EMERGENCY
 LEVEE ALIGNMENT**

**REACH 4
 EXTENSION**

Project number	39130-1087
Date	DEC 2020
Designed by	XXX
Drawn by	MJC
Checked by	SP
Checked by	XXX
Plot Date	March 27, 2023

03



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.

NOTE: SEE TYPICAL SECTION SHEET 08

NOTE:
 VOLUME OF MATERIAL REQUIRED = 16,560 CY

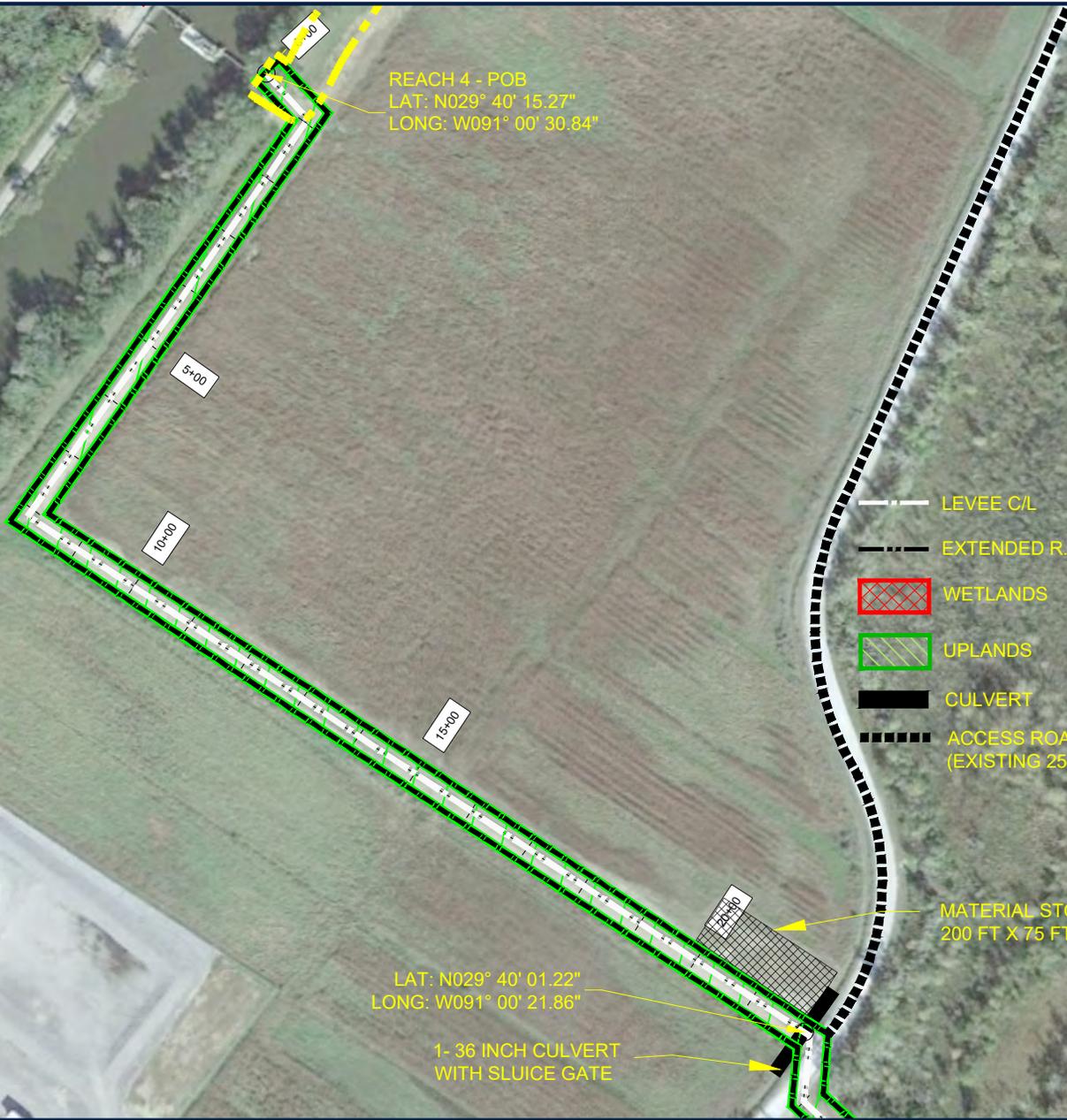
- AREA OF WETLAND IMPACTED = 2.6 ACRES
- LEVEE ALIGNMENT (1,927 LF)



M:\Department_39\Client\1100-Terrebonne Levee\1294 General Engineering (2021)\400 Execution\460 Drawings\461 DWG\Bayou Black Barrier Levee (CAD)\DWG\3-27-2023 revisions\REACH-ALIGNMENT PLANS- EXT.dwg



REACH 4 - POB
 LAT: N029° 40' 15.27"
 LONG: W091° 00' 30.84"



- LEVEE C/L
- EXTENDED R.O.W.
- WETLANDS
- UPLANDS
- CULVERT
- ACCESS ROAD (EXISTING 25 FT. WIDE ROAD)

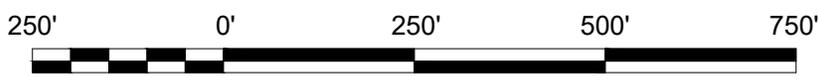
MATERIAL STOCKPILE AREA
 200 FT X 75 FT.

LAT: N029° 40' 01.22"
 LONG: W091° 00' 21.86"

1- 36 INCH CULVERT
 WITH SLUICE GATE

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA. ACTUAL FIELD CONDITIONS MAY DIFFER.

NOTE: THE FOOTPRINT OF THE REACH 4 LEVEE FROM STA. 0+00 TO STA. 37+50 (3,750 LF) IS ± 50 FT.
 DISTANCE BETWEEN TWO STATIONS IS 100 FT.
 SEE TYPICAL SECTION FOR REACH 4 EXTENSION ON SHEET 10
 THE LENGTH OF THE ACCESS ROAD (GERALDINE ROAD) FROM LA 182 IS ± 7,600 FT.



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THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR ANY OTHER ACTION OF ANY KIND.
 DUSTIN M. MALBROUGH
 LA LIC# 98-00-38779

TERREBONNE PARISH
 CONSOLIDATED GOVERNMENT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

**REACH 4 LEVEE
 DETAILED PLAN**

Project number	39130-1087
Date	APRIL 2016
Designed by	DMM
Drawn by	JPT
Checked by	XXX
Checked by	XXX
Plot Date	April 16, 2019



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.

NOTE:
 THE FOOTPRINT OF THE REACH 4 LEVEE FROM STA. 0+00 TO STA. 37+50 IS ± 50 FT.
 THE FOOTPRINT OF THE REACH 4 FROM STA. 37+50 TO STA. 116+58 IS ± 61 FT
 SEE TYPICAL SECTION FOR REACH 4 EXTENSION ON SHEET 10




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DUSTIN M. MALBROUGH
LA. LICENSE NO. 36779

**TERREBONNE PARISH
CONSOLIDATED GOVERNMENT**

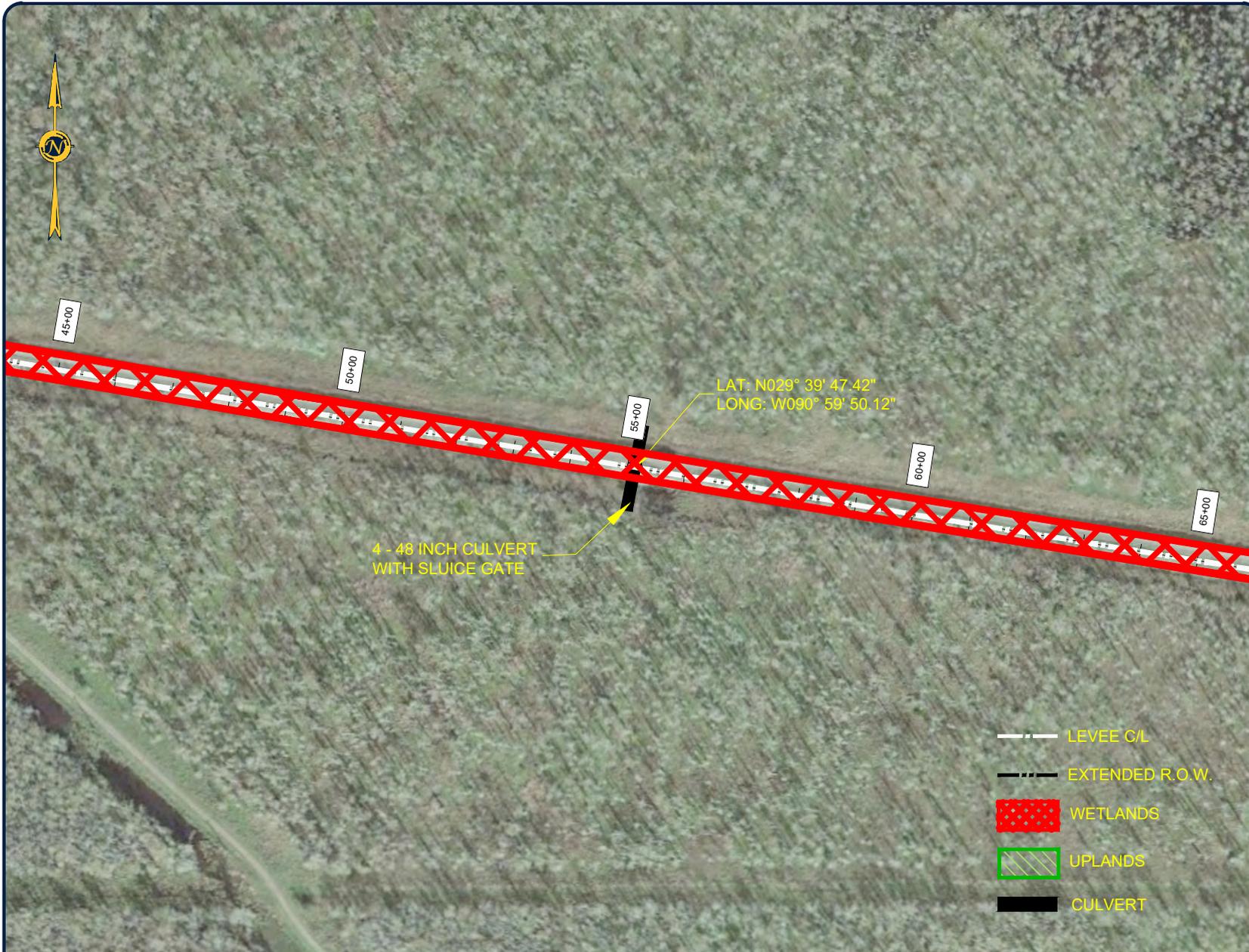
**BAYOU BLACK
BARRIER LEVEE SYSTEM**

**REACH 4 LEVEE
DETAILED PLAN**

Project number	39130-1087
Date	APRIL 2016
Designed by	DMM
Drawn by	JPT
Checked by	XXX
Checked by	XXX
Plot Date	April 16, 2019

05

M:\Department_39\Clara\TCD-terrebonne Levee\1294 General Engineering (2021)\400 Execution\460 Drawings\161 DWG\Bayou Black Barrier Levee\CAD\DWG\3-27-2023 revisions\REACH_4.dwg



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NOTE:
THE FOOTPRINT OF THE REACH 4 FROM STA. 37+50 TO STA. 116+58 IS ± 61 FT
SEE TYPICAL SECTION FOR REACH 4 EXTENSION ON SHEET 10



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TERREBONNE PARISH
CONSOLIDATED GOVERNMENT
BAYOU BLACK
BARRIER LEVEE SYSTEM

REACH 4 LEVEE DETAILED PLAN

Project number 39130-1087

Date APRIL 2016

Designed by DMM

Drawn by JPT

Checked by XXX

Checked by XXX

Plot Date April 16, 2019

06



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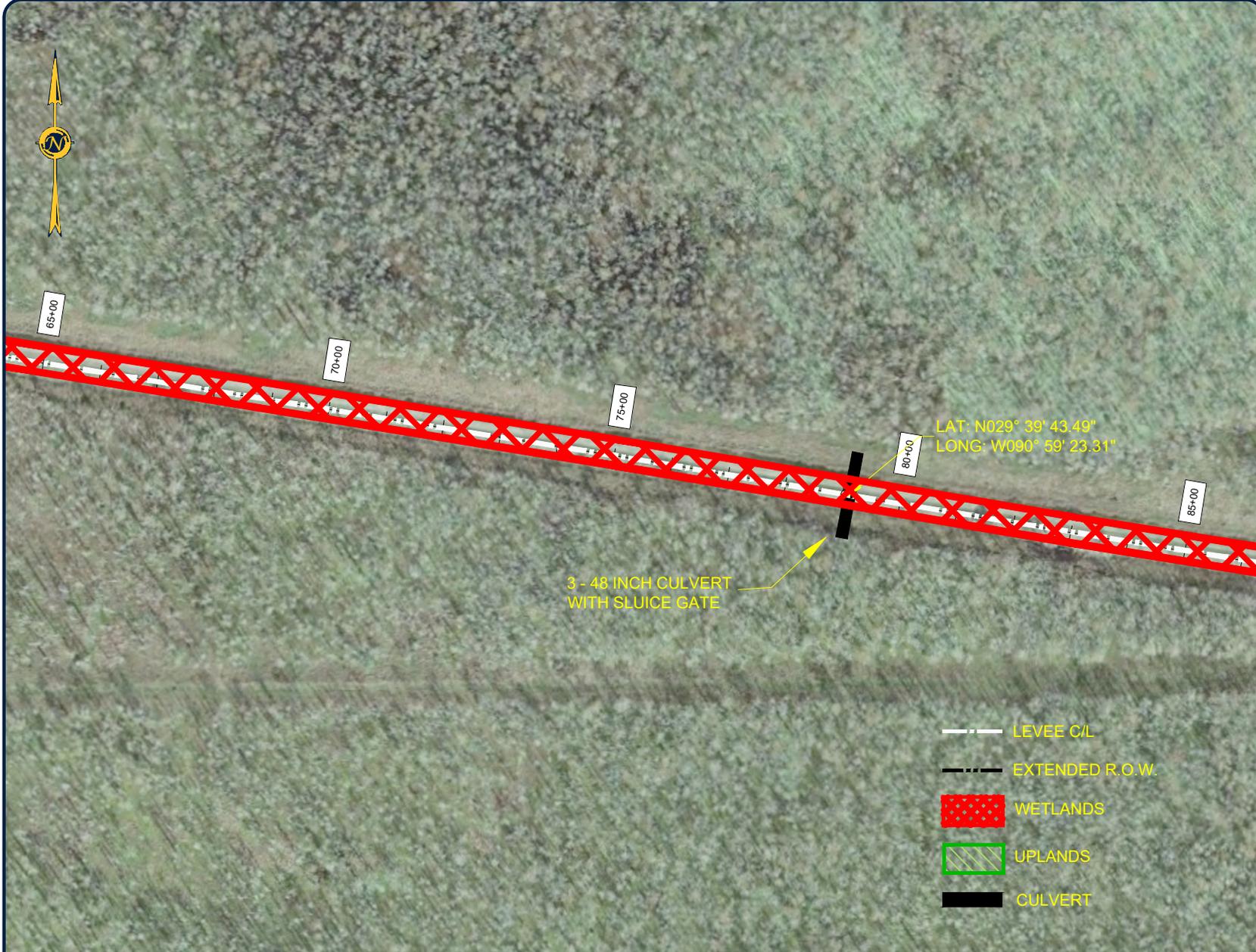
**TERREBONNE PARISH
 CONSOLIDATED GOVERNMENT**

**BAYOU BLACK
 BARRIER LEVEE SYSTEM**

REACH 4 LEVEE DETAILED PLAN

Project number	39130-1087
Date	APRIL 2016
Designed by	DMM
Drawn by	JPT
Checked by	XXX
Checked by	XXX
Plot Date	April 16, 2019

07

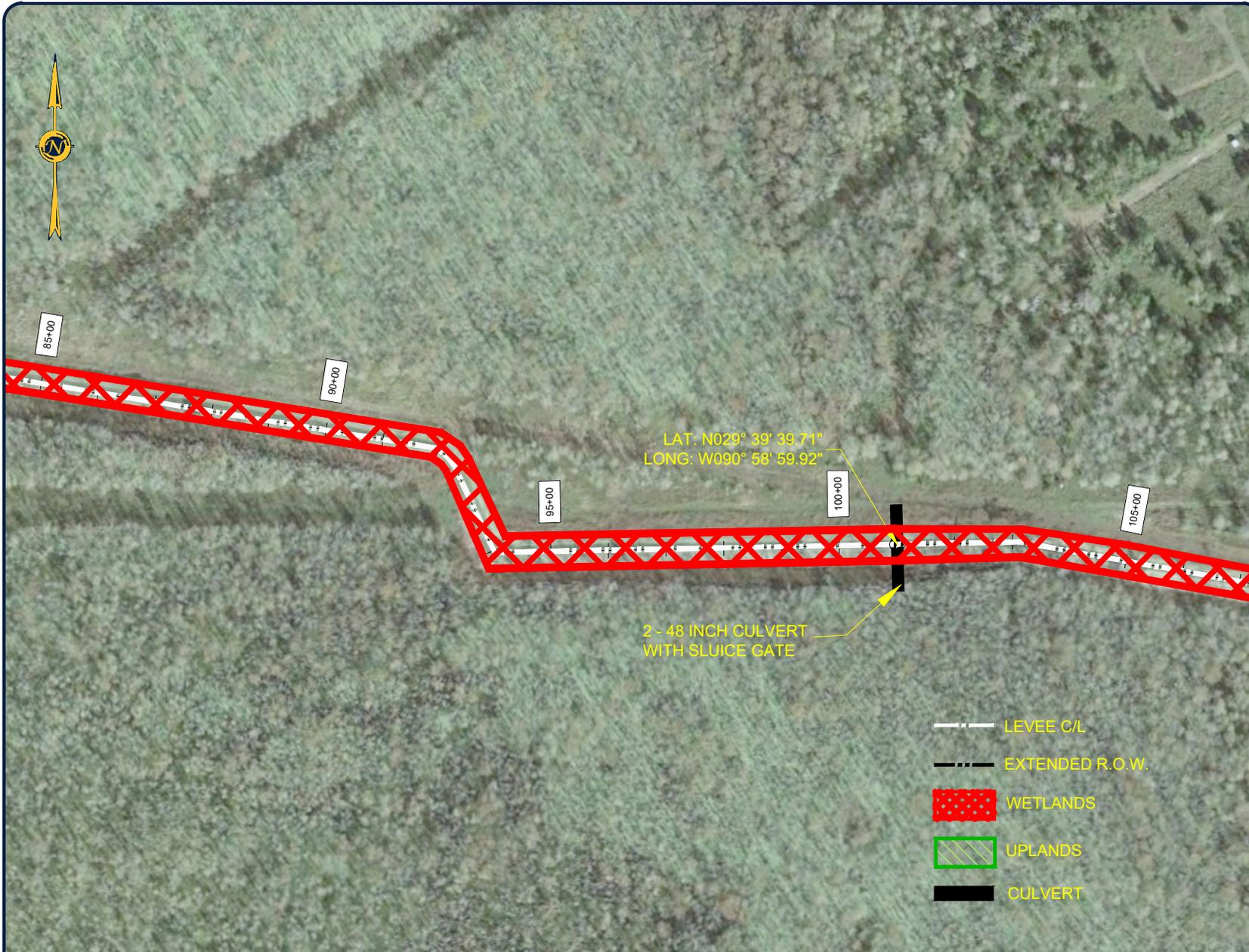


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NOTE:
 THE FOOTPRINT OF THE REACH 4 FROM STA. 37+50 TO STA. 116+58 IS ± 61 FT
 SEE TYPICAL SECTION FOR REACH 4 EXTENSION ON SHEET 10

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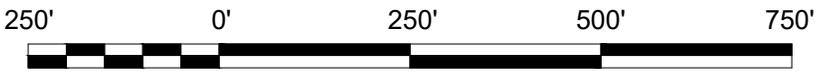


LAT. N029° 39' 39.71"
LONG. W090° 58' 59.92"

2 - 48 INCH CULVERT
WITH SLUICE GATE

-  LEVEE C/L
-  EXTENDED R.O.W.
-  WETLANDS
-  UPLANDS
-  CULVERT

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NOTE:
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SEE TYPICAL SECTION FOR REACH 4 EXTENSION ON SHEET 10



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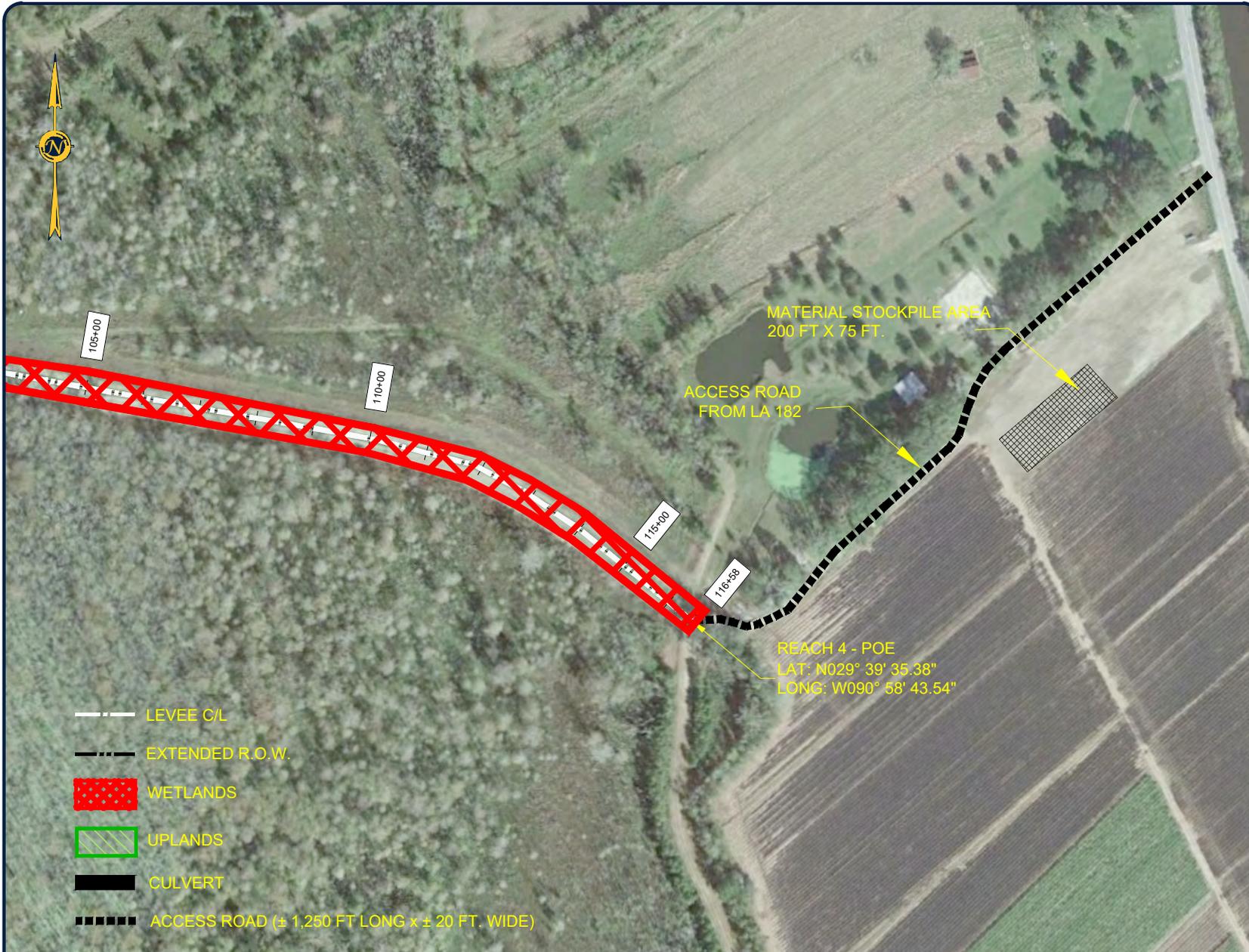
**TERREBONNE PARISH
CONSOLIDATED GOVERNMENT**

**BAYOU BLACK
BARRIER LEVEE SYSTEM**

**REACH 4 LEVEE
DETAILED PLAN**

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Plot Date	April 16, 2019

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- LEVEE CL
- EXTENDED R.O.W.
- WETLANDS
- UPLANDS
- CULVERT
- ACCESS ROAD (± 1,250 FT LONG x ± 20 FT. WIDE)

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TERREBONNE PARISH
 CONSOLIDATED GOVERNMENT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

REACH 4 LEVEE DETAILED PLAN

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Date APRIL 2016

Designed by DMM

Drawn by JPT

Checked by XXX

Checked by XXX

Plot Date April 16, 2019

09



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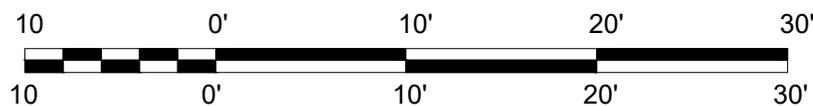
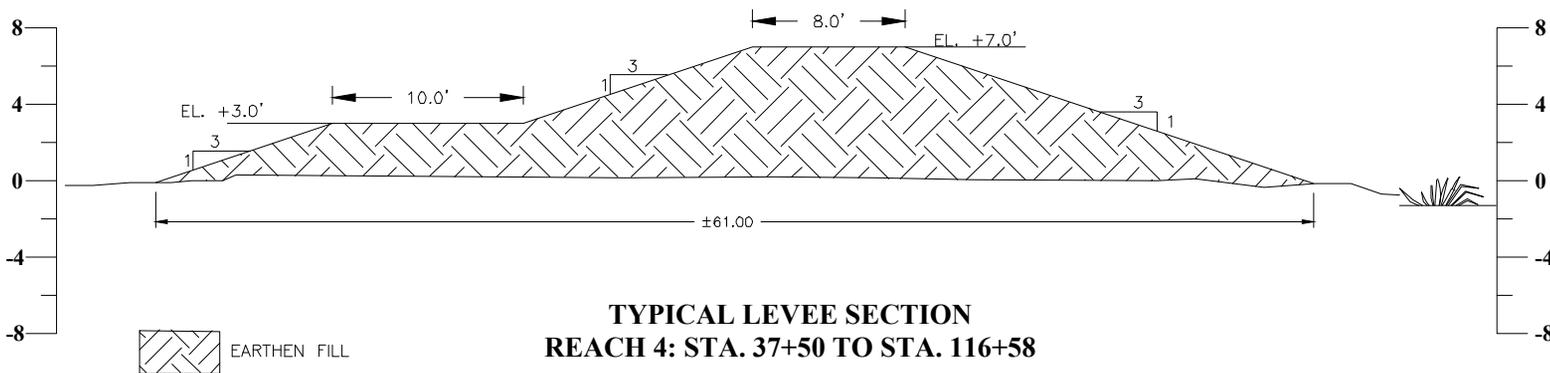
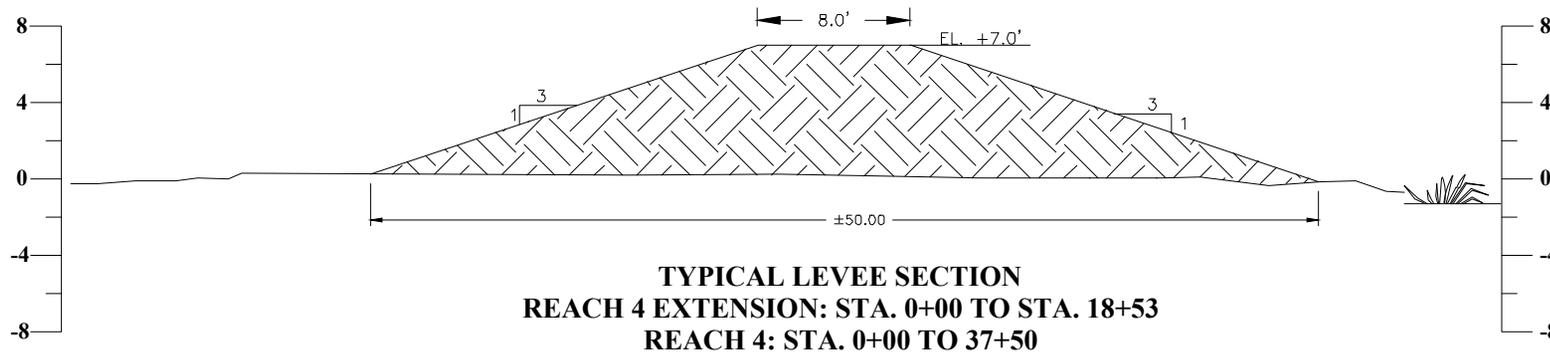
ENGINEER'S NAME
LA. LICENSE NO. 00000

TERREBONNE LEVEE CONSOLIDATION DISTRICT
BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 4 LEVEE TYPICAL CROSS SECTIONS

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023

10



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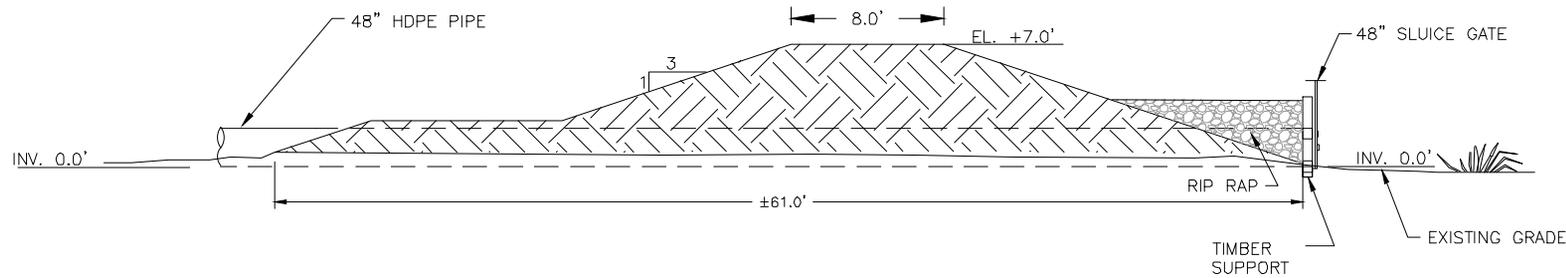
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 LA LICENSE NO. 00000

**TERREBONNE LEVEE CONSOLIDATION DISTRICT
 BAYOU BLACK BARRIER LEVEE SYSTEM**

**REACH 4
 LEVEE TYPICAL CROSS SECTIONS**

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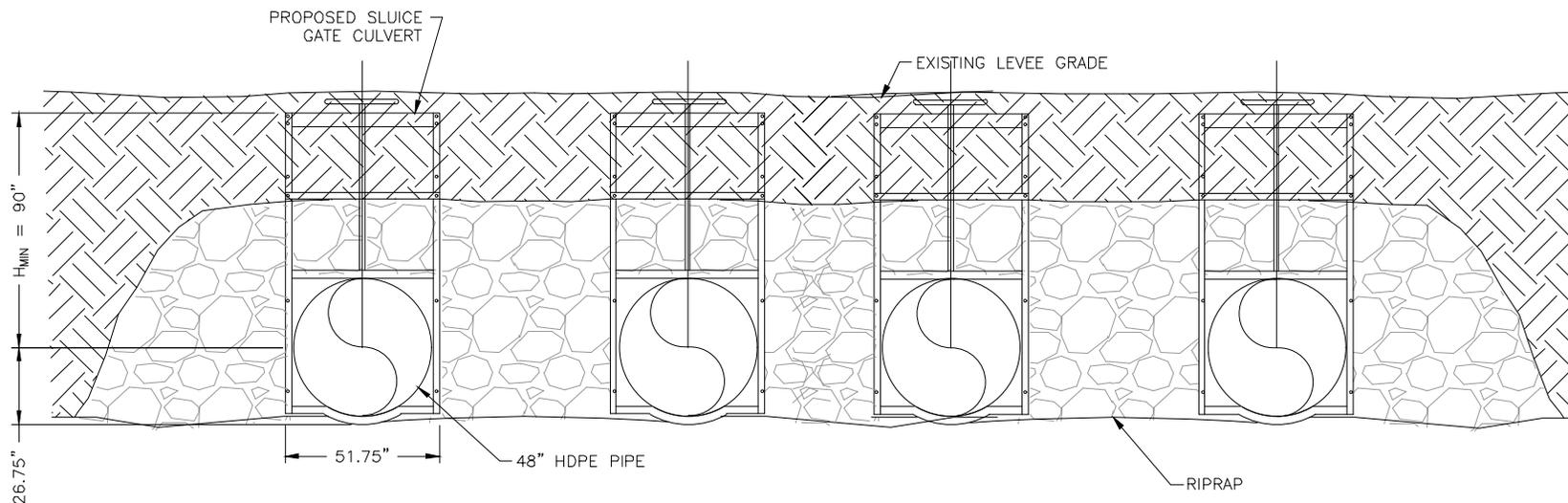


TYPICAL SLUICE GATE CULVERT PROFILE



EARTHEN FILL

NOTE: SLUICE GATE TO REMAIN OPEN DURING NORMAL TIDAL CONDITIONS TO ALLOW TIDAL EXCHANGE WITH THE ADJACENT WETLANDS. THE GATE WILL BE CLOSED DURING POTENTIAL FLOOD EVENTS.



**TYPICAL SLUICE GATE CULVERT DETAIL
 NOT TO SCALE**

H_{MIN} WILL VARY AS REQUIRED.

RIP RAP



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REVISIONS

No.	Description	Date

FOR PERMIT APPLICATION ONLY

ENGINEER'S NAME
 LA. LICENSE NO. 00000

**TERREBONNE LEVEE
 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM**

REACH 3 PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	May 1, 2023



- LEVEE C/L (23,463 LF)
- EXTENDED R.O.W.
- WATERS OF THE US: 2.31 ACRES
- WETLANDS: 26.64 ACRES
 (CYPRESS TUPELO 13.96 ACRES @ STA. 0+00 TO STA. 120+00,
 BOTTOM LAND HARDWOOD 12.68 ACRES @ STA. 120+00 TO 234+63)
- UPLANDS: 26.69 ACRES
- BORROW PIT

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



M:\Department_39\Client\TLOD-Terrebonne Levees\284-General Engineering (2021)\400-Execution\460-Drawings\461-DWG\Bayou Black Barrier Levee\COI.DWG\REACH_3.dwg



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REVISIONS

No.	Description	Date

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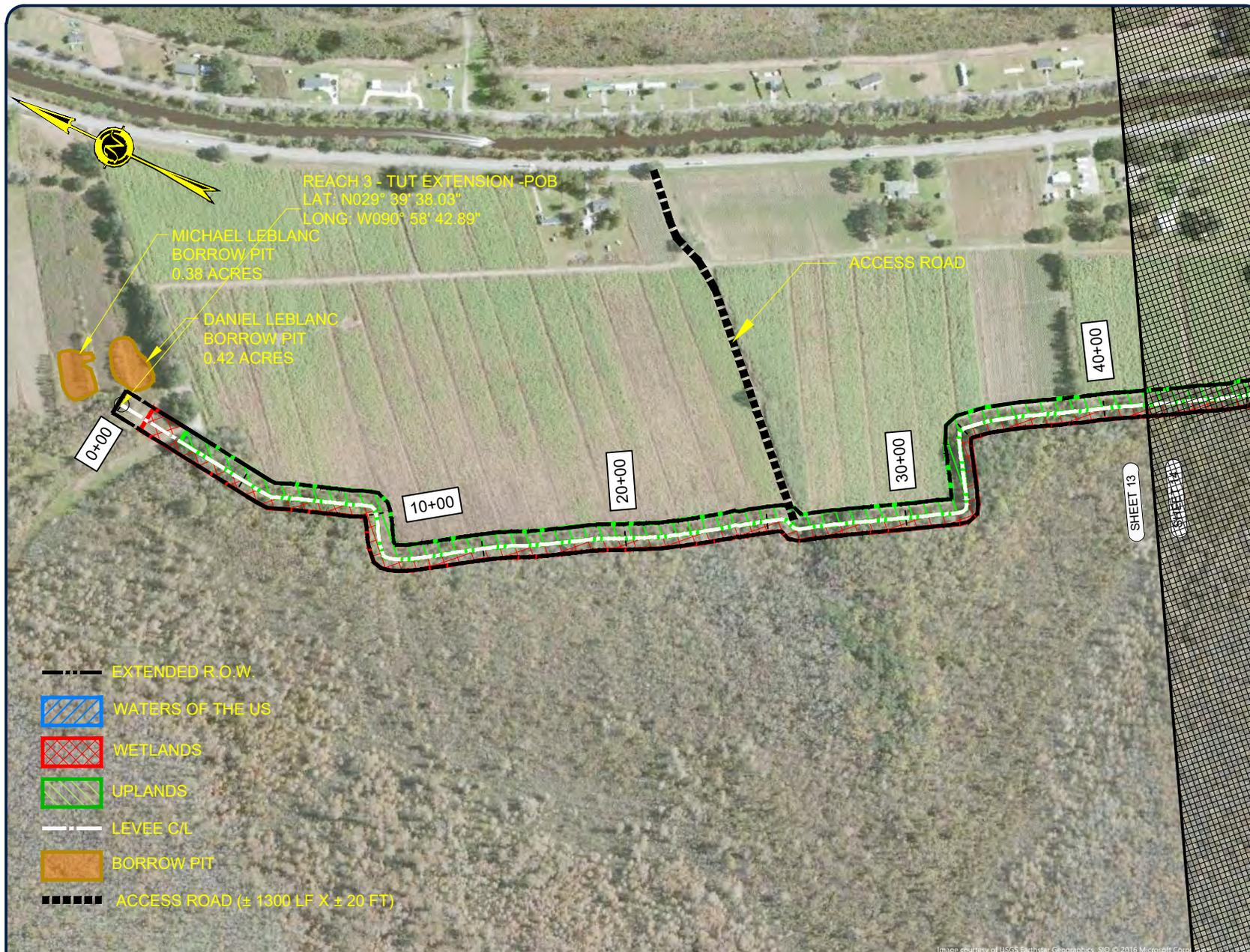
ENGINEER'S NAME
LA. LICENSE NO. 00000

TERREBONNE LEVEE
CONSOLIDATION DISTRICT
BAYOU BLACK
BARRIER LEVEE SYSTEM

**REACH 3
TUT EXTENSION
DETAILED PLAN VIEW**

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023

13



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



M:\Department_39\Client\TLOD-Terrebonne Levee\284 General Engineering (2021)\400 Execution\460 Drawings\461 DIMS\Bayou Black Barrier Levee\CAD\DWG\3-27-2023 revisions\REACH_3A- TUT_EXTN.dwg



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REVISIONS

No.	Description	Date

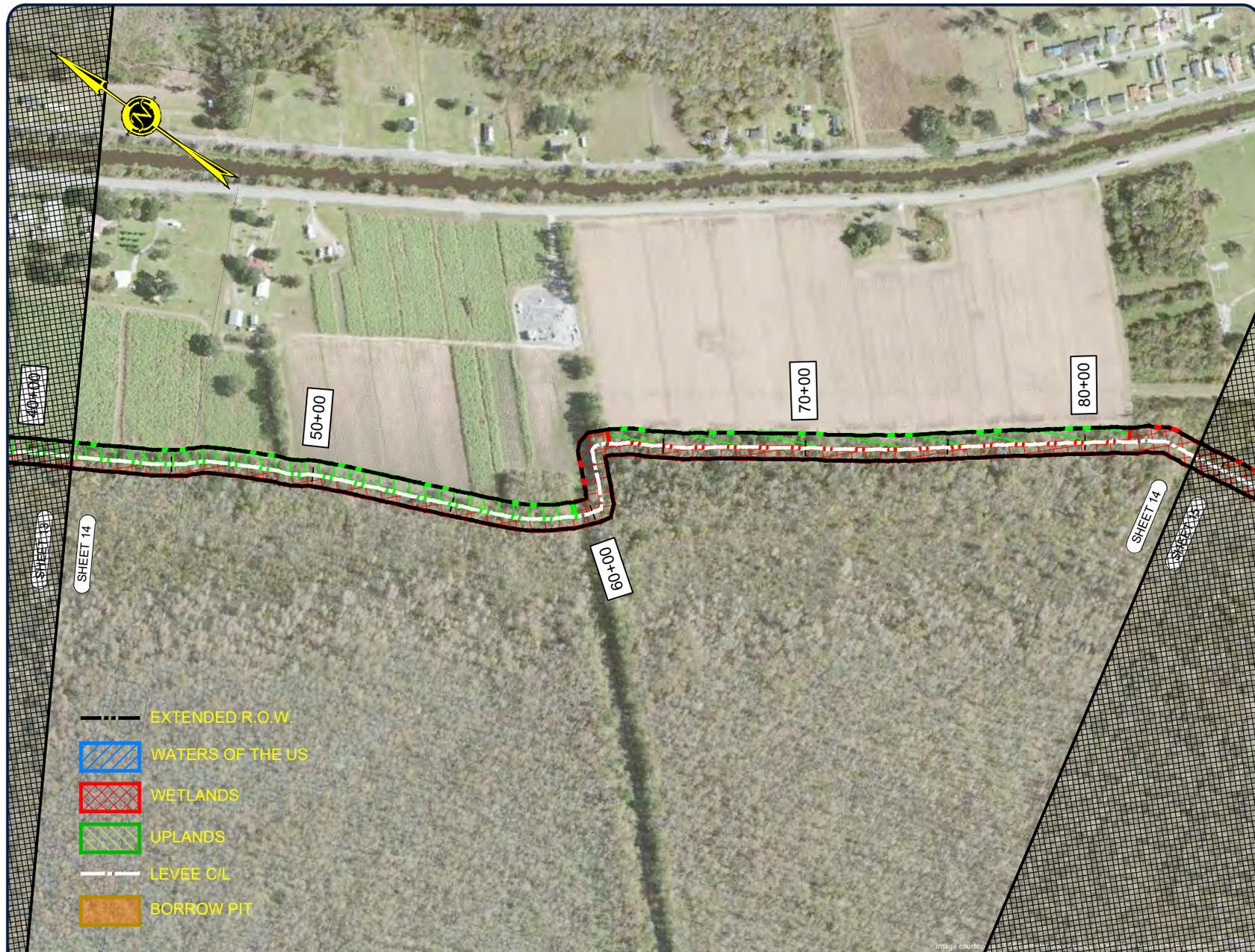
FOR PERMIT APPLICATION ONLY

ENGINEER'S NAME
 LA LICENSE NO. 00000

TERREBONNE LEVEE
 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

**REACH 3
 TUT EXTENSION
 DETAILED PLAN VIEW**

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
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Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023



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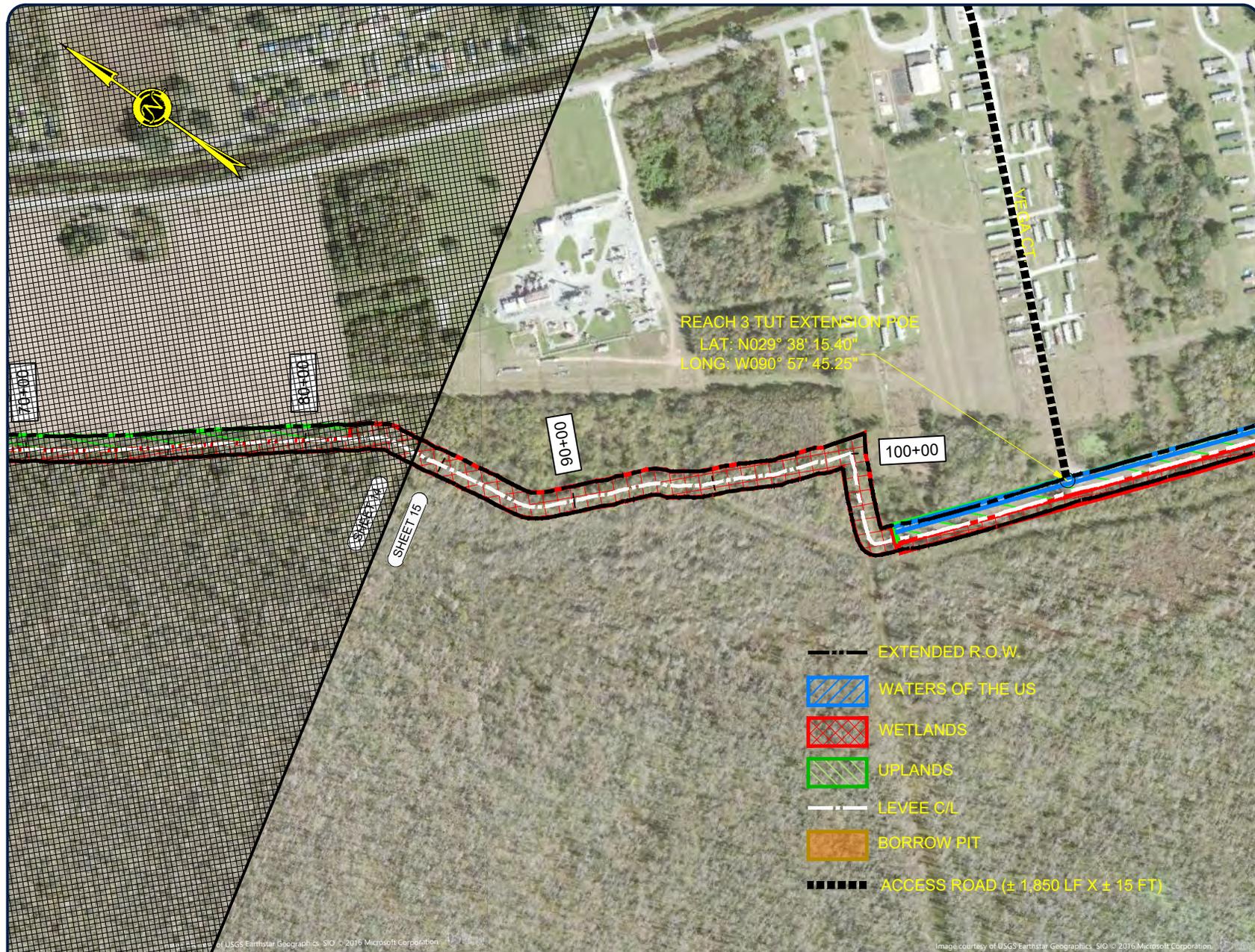
No.	Description	Date

FOR PERMIT APPLICATION ONLY
ENGINEER'S NAME
LA LICENSE NO. 00000

TERREBONNE LEVEE CONSOLIDATION DISTRICT
BAYOU BLACK BARRIER LEVEE SYSTEM

**REACH 3 TUT EXTENSION
DETAILED PLAN VIEW**

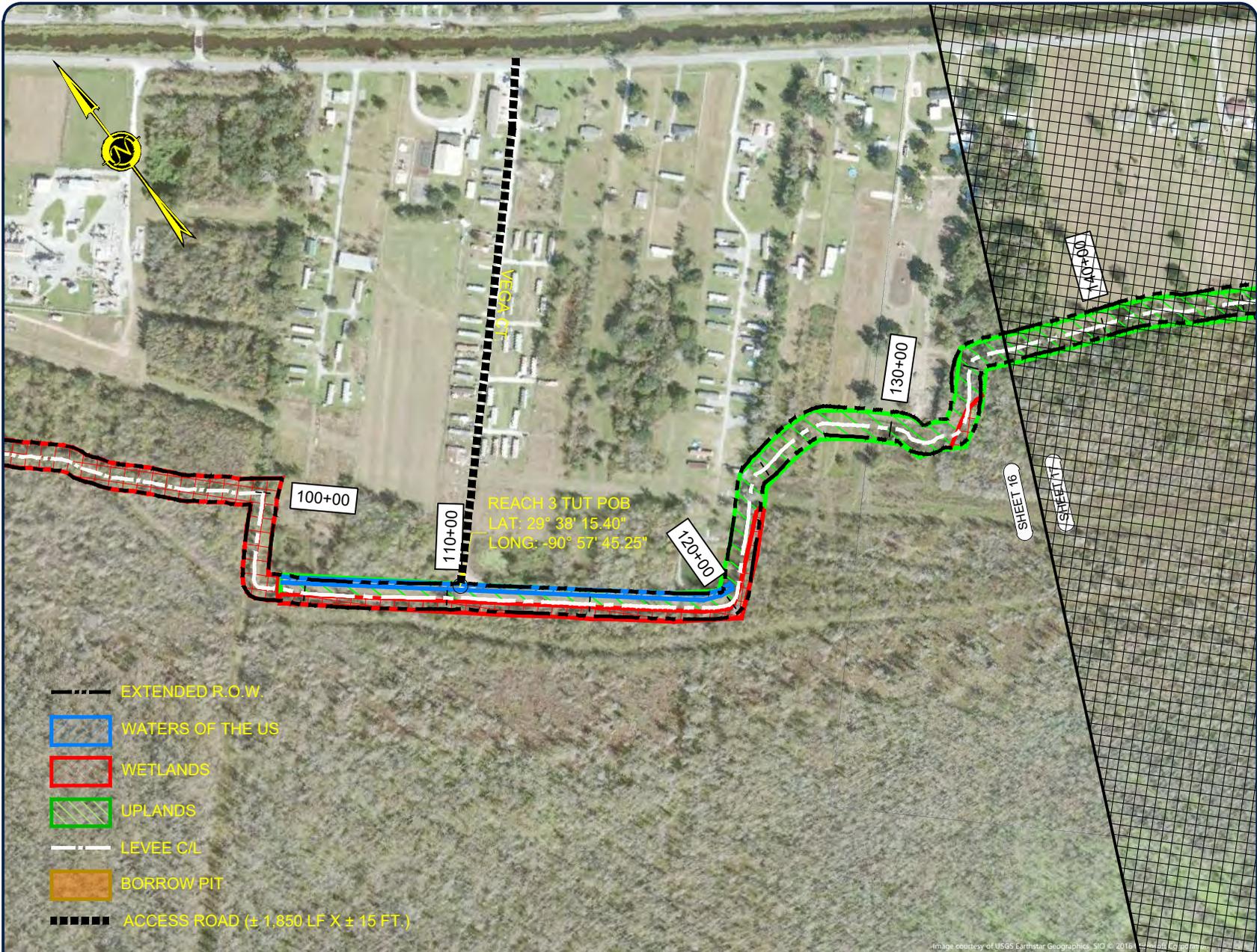
Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023



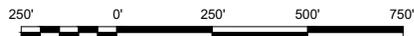
NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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No.	Description	Date

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TERREBONNE LEVEE
 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

REACH 3 TUT DETAILED PLAN VIEW

Project number	39130-1294
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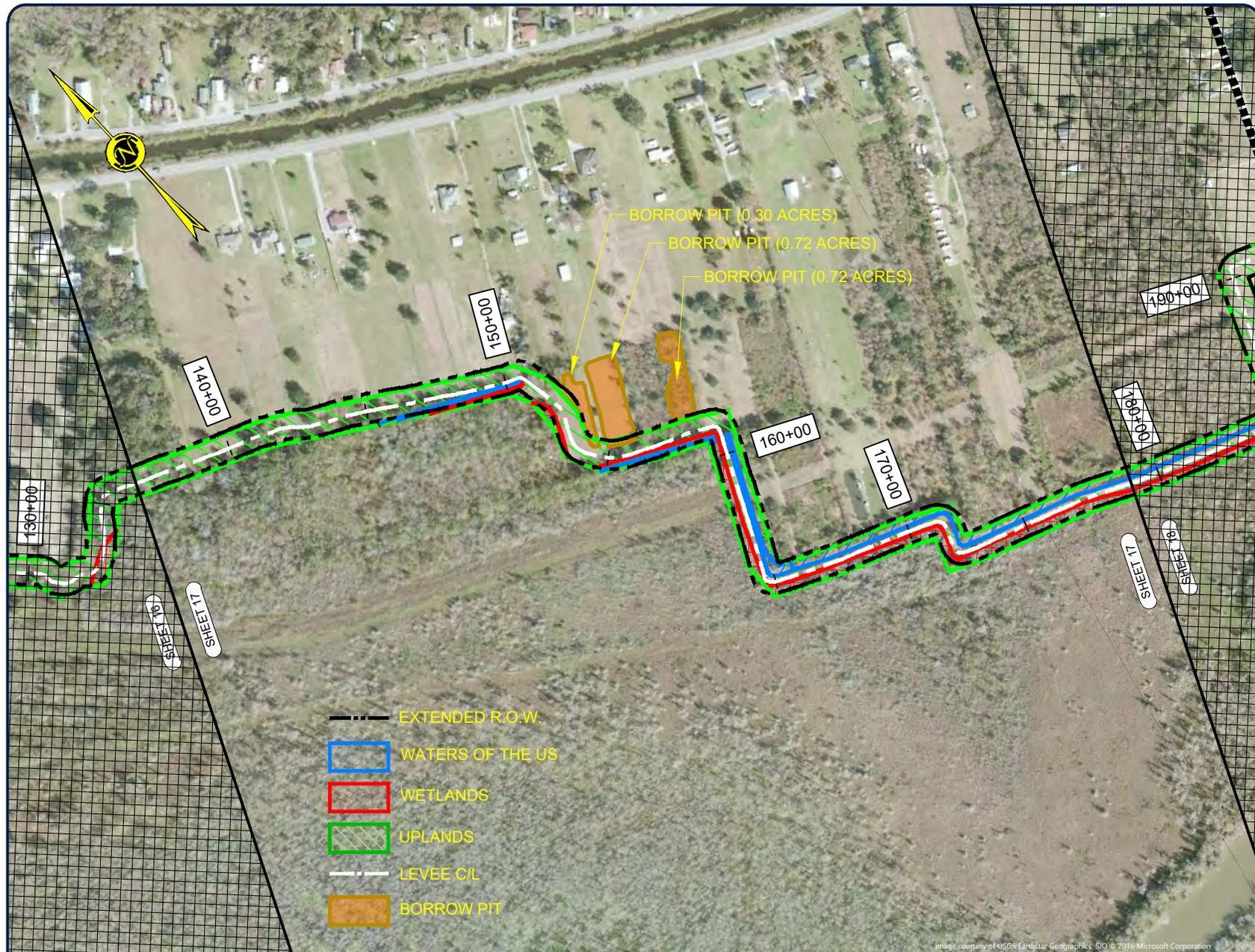
FOR PERMIT APPLICATION ONLY

ENGINEER'S NAME
 LA LICENSE NO. 00000

TERREBONNE LEVEE
 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

REACH 3 TUT DETAILED PLAN VIEW

Project number	39130-1294
Date	DEC 2021
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Plot Date	March 27, 2023



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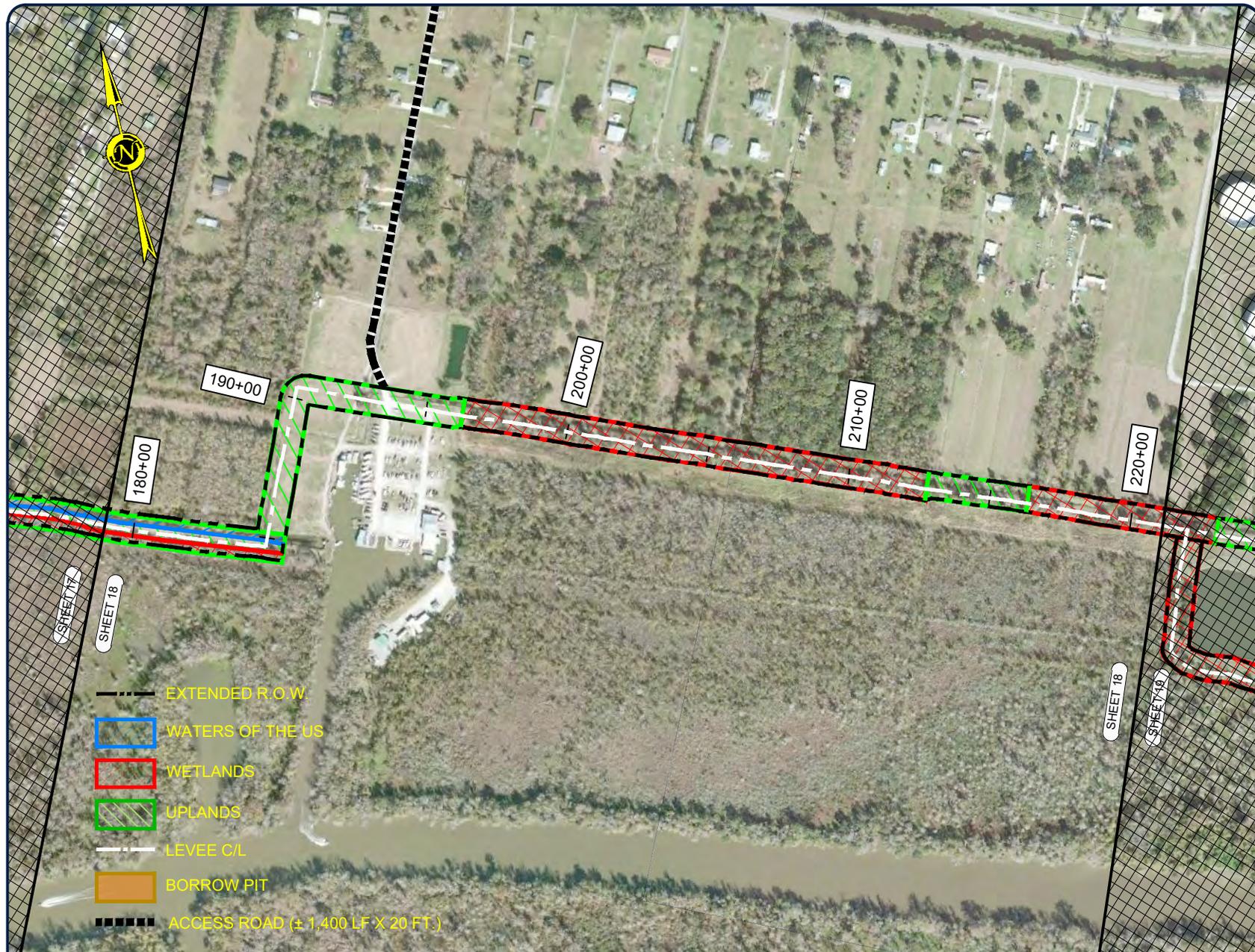
FOR PERMIT APPLICATION ONLY

ENGINEER'S NAME
 LA. LICENSE NO. 00000

TERREBONNE LEVEE
 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

REACH 3 TUT DETAILED PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
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REVISIONS

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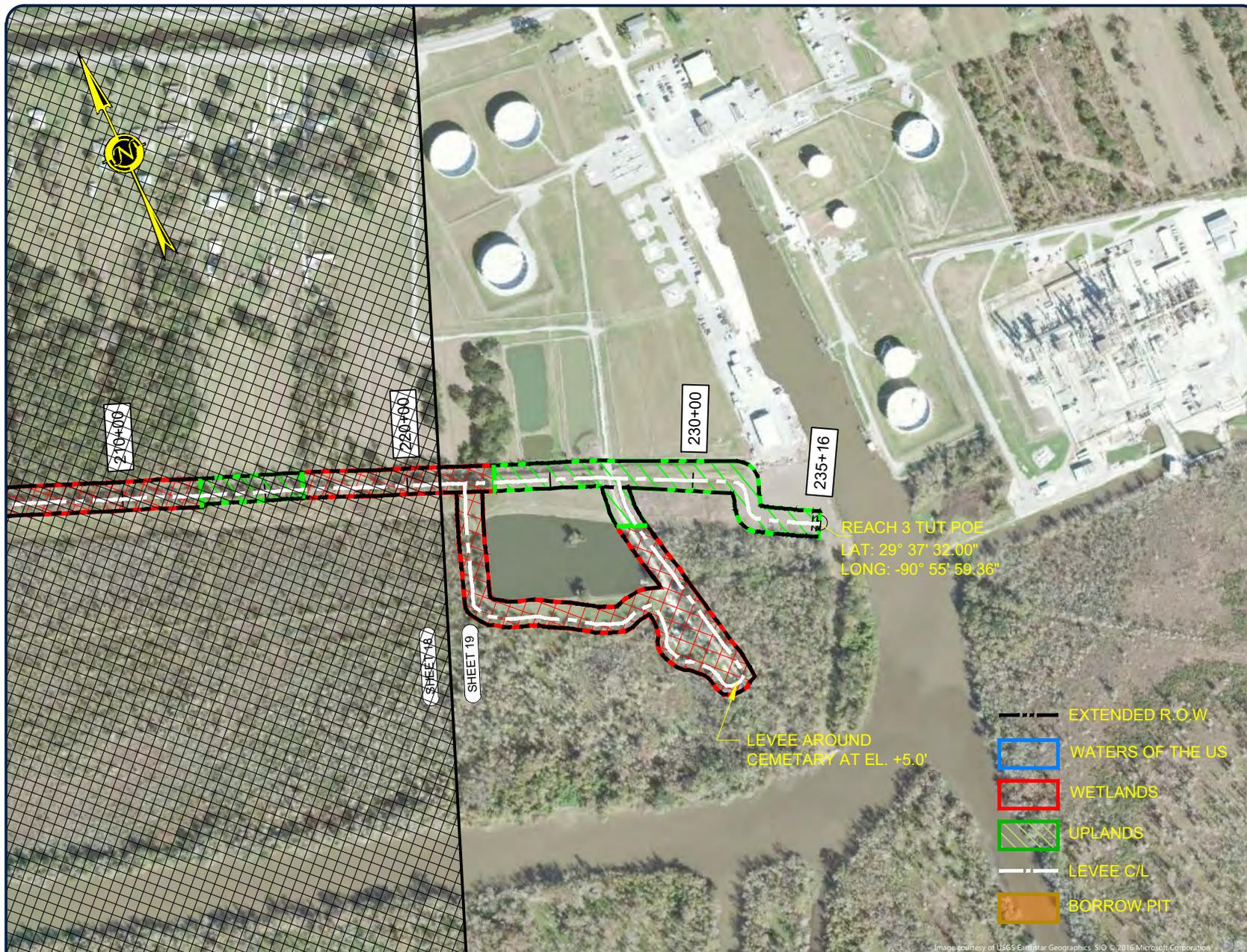
FOR PERMIT APPLICATION ONLY

ENGINEER'S NAME
LA. LICENSE NO. 00000

TERREBONNE LEVEE CONSOLIDATION DISTRICT
BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 3 TUT DETAILED PLAN VIEW

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Checked by	XXX
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REACH 3 TUT POE
LAT: 29° 37' 32.00"
LONG: -90° 55' 58.36"

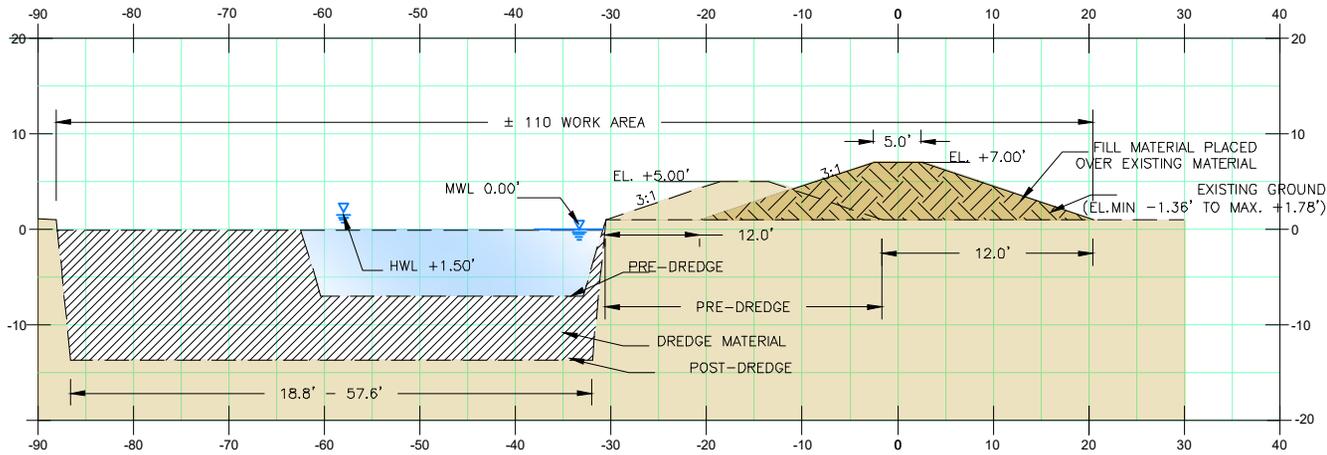
LEVEE AROUND CEMETARY AT EL. +5.0'

- EXTENDED R.O.W.
- WATERS OF THE US
- WETLANDS
- UPLANDS
- LEVEE C/L
- BORROW PIT

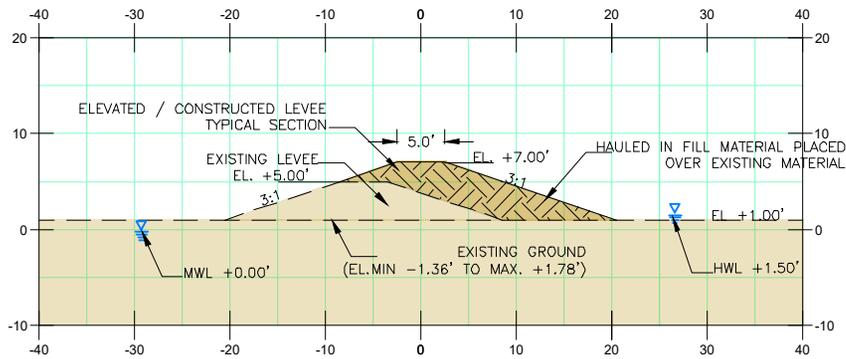
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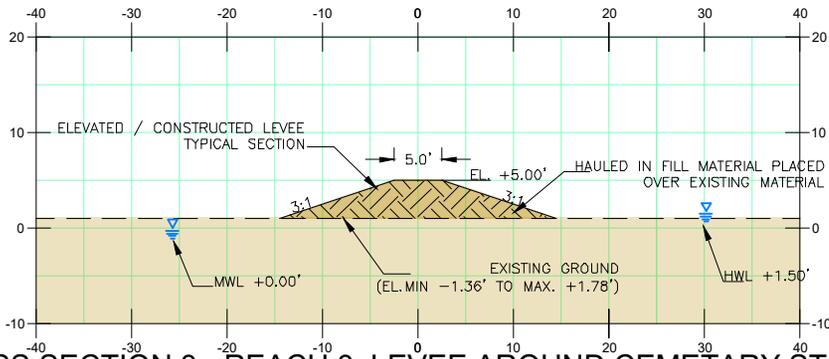
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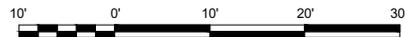
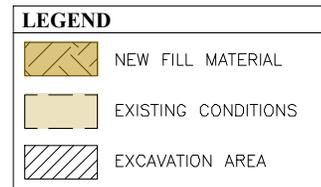
TYPICAL CROSS SECTION 1 - REACH 3: STA. 0+00 TO STA.225+00



TYPICAL CROSS SECTION 2 - REACH 3: STA. 225+00 TO STA.234+31



TYPICAL CROSS SECTION 3 - REACH 3: LEVEE AROUND CEMETARY STA. 225+00 TO STA.234+31



NOTES:

- CROSS SECTIONS VARY ALONG THE ENTIRE LENGTH OF THE ALIGNMENT.
- EXISTING LEVEE WAS DEGRADED TO PROVIDE A BERM AND STABILITY FOR THE PROPOSED LEVEE.



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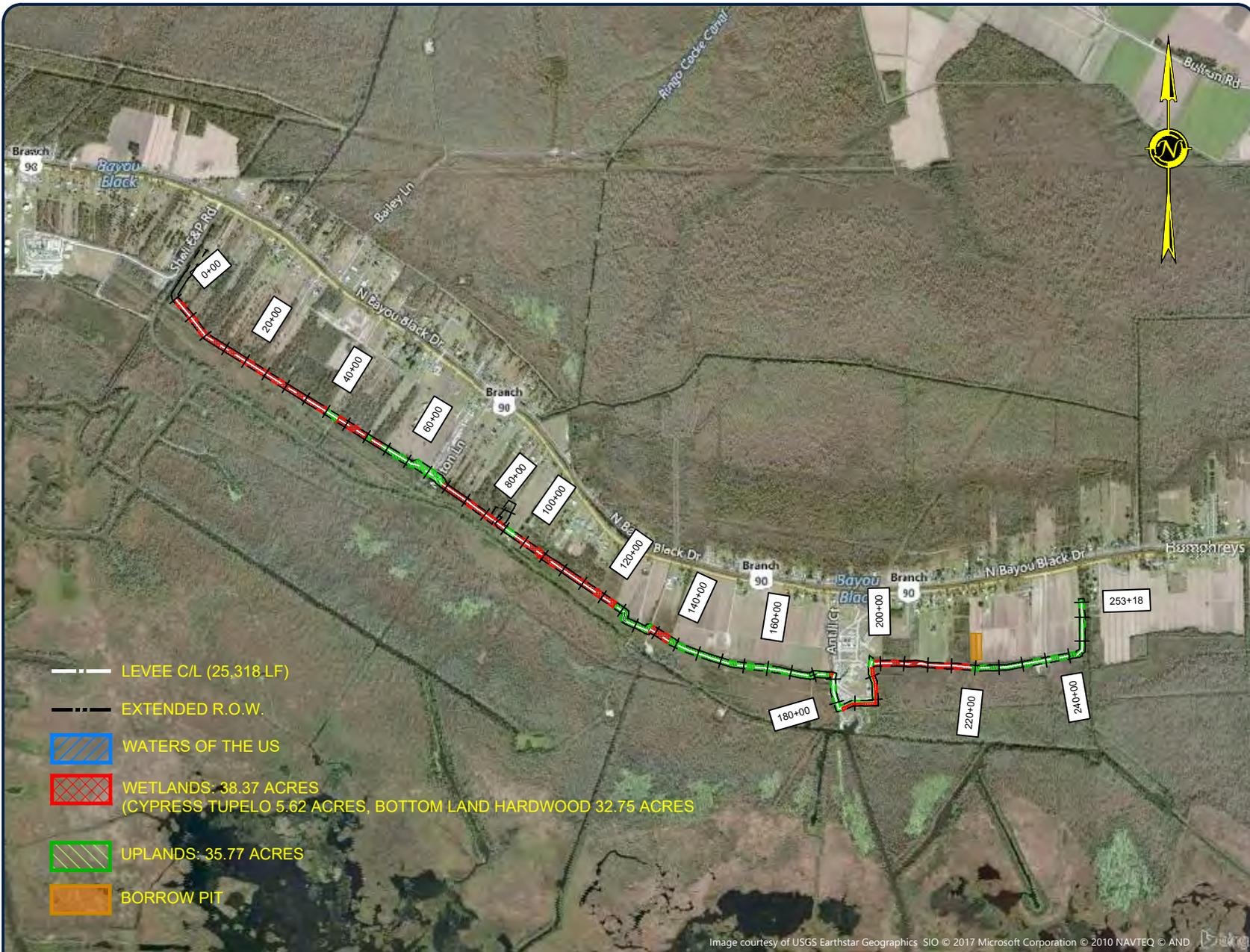
ENGINEER'S NAME
LA. LICENSE NO. 00000

TERREBONNE LEVEE CONSOLIDATION DISTRICT
BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 3 LEVEE CROSS-SECTIONS

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023

M:\Department_39\Client\TLOD-Terrebonne_Levee\294_General_Engineering_2021\400_General_Engineering_2021\400_Execution\460_Drawings\461_DWG\Bayou Black Barrier Levee\CAD\DWG\3-27-2023_revisions\REACH 3 TYPICAL SECTIONS.dwg



-  LEVEE C/L (25,318 LF)
-  EXTENDED R.O.W.
-  WATERS OF THE US
-  WETLANDS: 38.37 ACRES
(CYPRESS TUPELO 5.62 ACRES, BOTTOM LAND HARDWOOD 32.75 ACRES)
-  UPLANDS: 35.77 ACRES
-  BORROW PIT

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LA. LICENSE NO. 00000

TERREBONNE LEVEE
CONSOLIDATION DISTRICT

BAYOU BLACK
BARRIER LEVEE SYSTEM

REACH 2 PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	May 1, 2023

M:\Department_39\Client\TIGD-Terrebonne Levee\284-General Engineering (2021)\400-Execution\460-Execution\460-Drawings\461-DWG\Bayou Black Barrier Level\COO\DWG\Reach 2-Alignment_Plan.dwg



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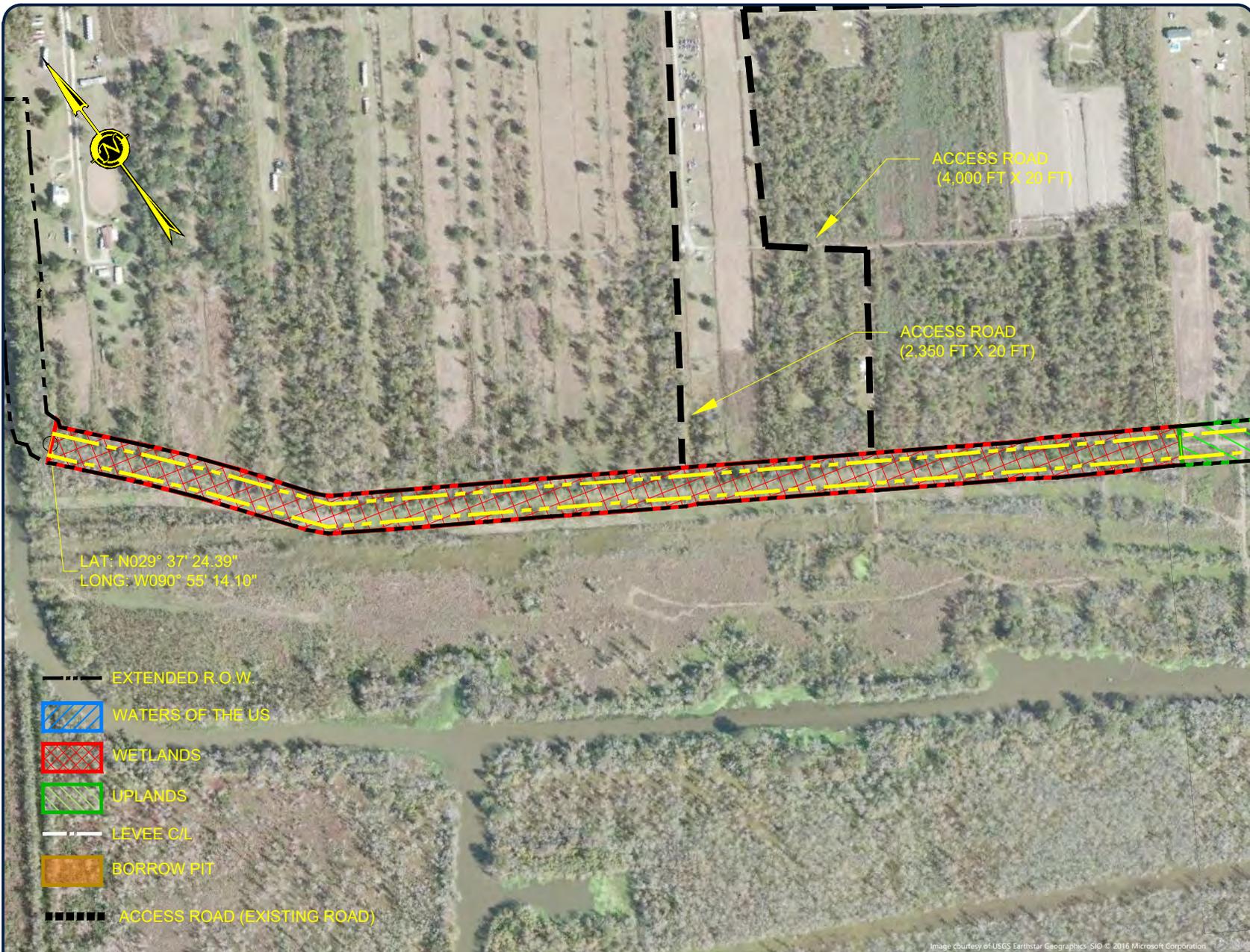
No.	Description	Date

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ENGINEER'S NAME
LA. LICENSE NO. 00000

TERREBONNE LEVEE CONSOLIDATION DISTRICT
BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 2 DETAILED PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
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Checked by	XXX
Plot Date	March 27, 2023



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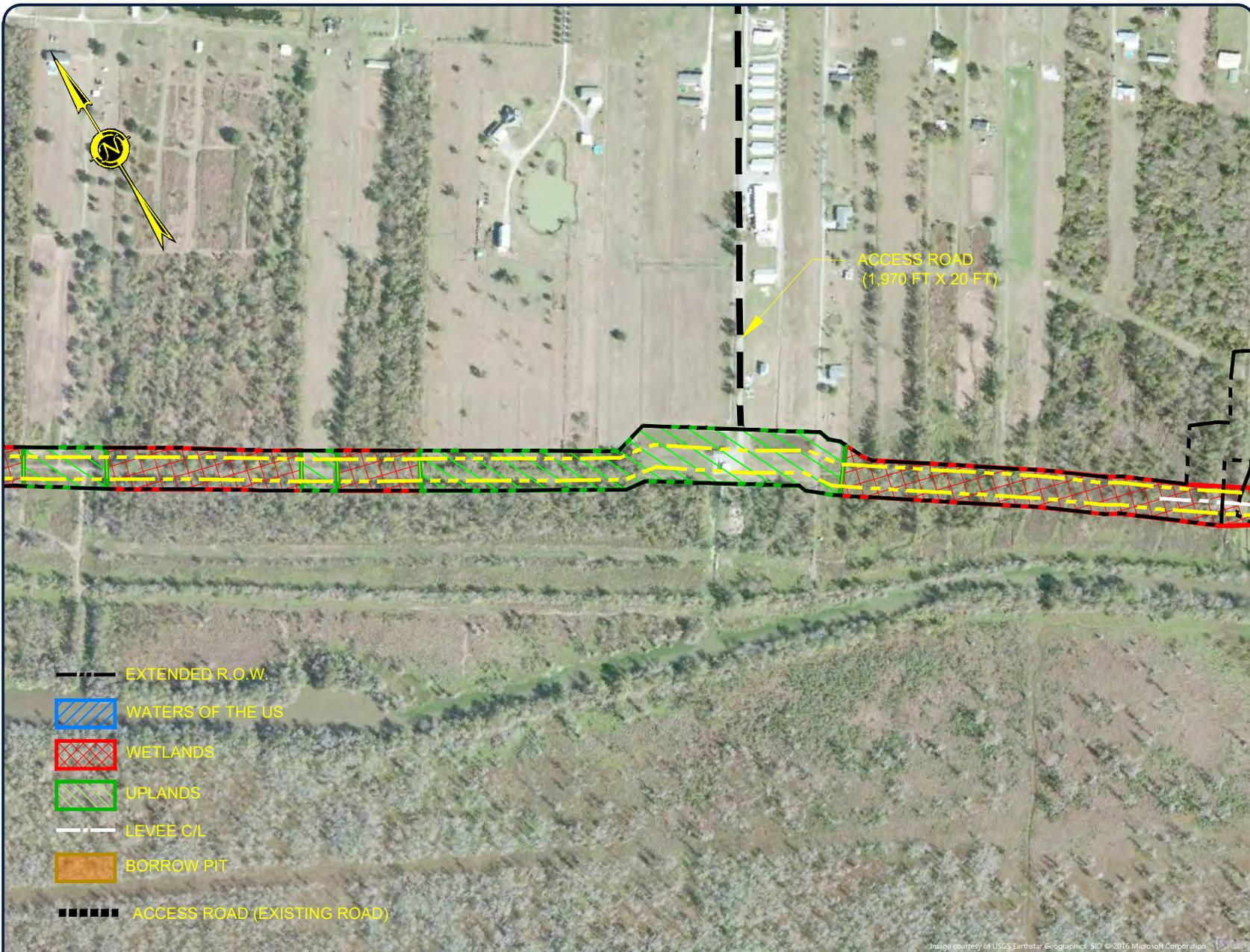
FOR PERMIT APPLICATION ONLY

ENGINEER'S NAME
LA LICENSE NO. 00000

TERREBONNE LEVEE CONSOLIDATION DISTRICT
 BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 2 DETAILED PLAN VIEW

Project number	39130-1294
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Designed by	SDP
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Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023



- EXTENDED R.O.W.
- WATERS OF THE US
- WETLANDS
- UPLANDS
- LEVEE CIL
- BORROW PIT
- ACCESS ROAD (EXISTING ROAD)

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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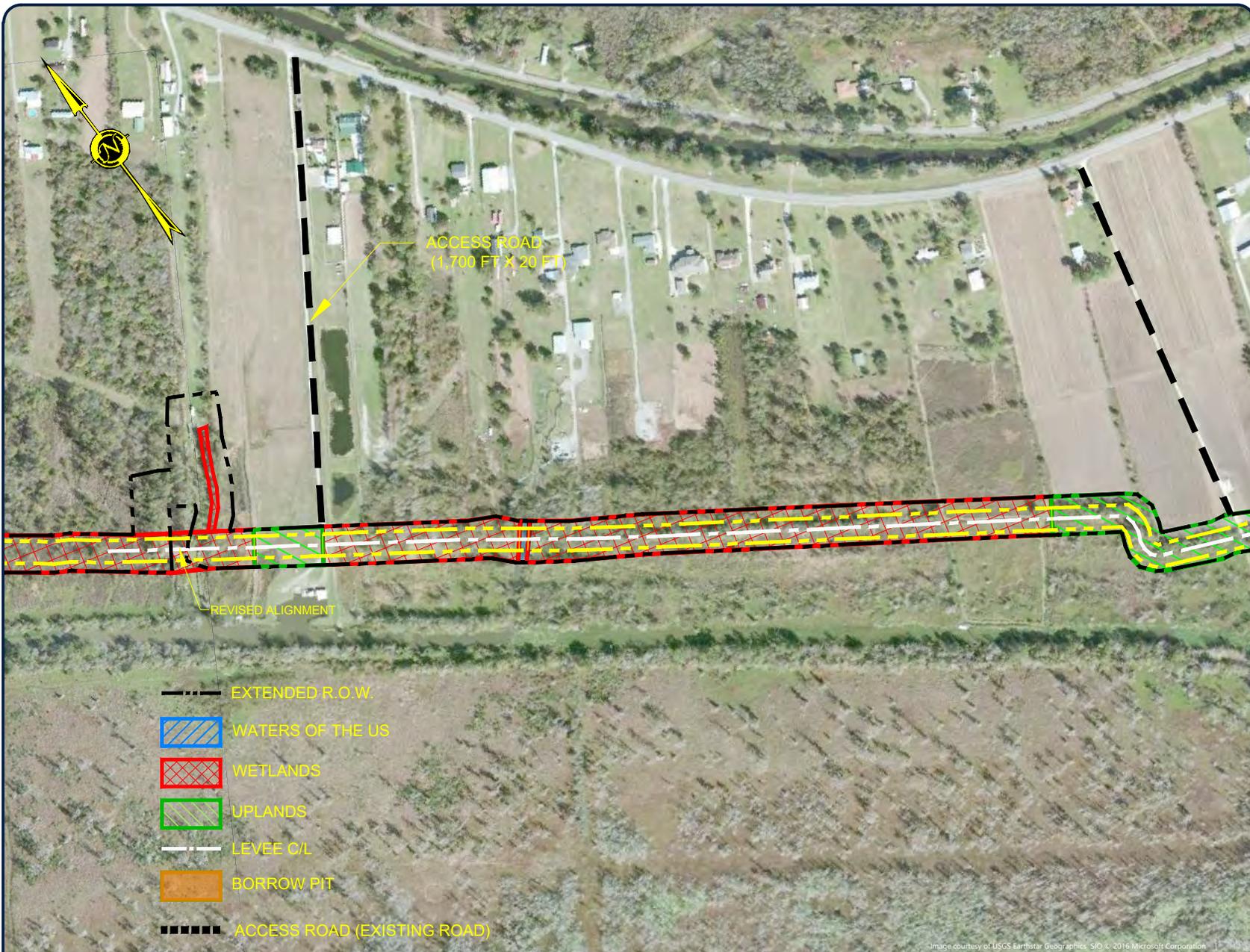
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 LA LICENSE NO. 00000

TERREBONNE LEVEE
 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

REACH 2 DETAILED PLAN VIEW

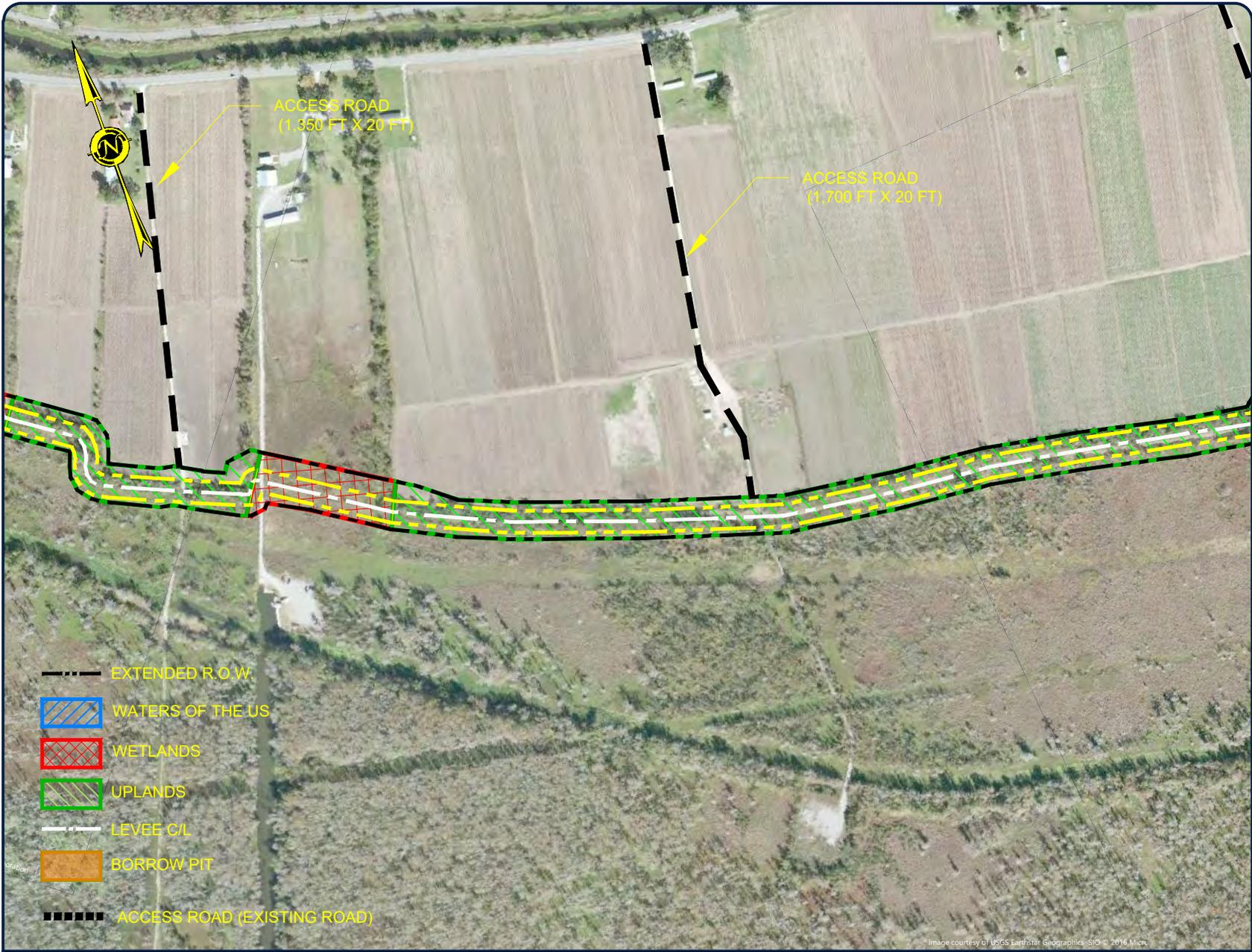
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Plot Date	March 27, 2023



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REVISIONS

No.	Description	Date

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LA LICENSE NO. 00000

TERREBONNE LEVEE
CONSOLIDATION DISTRICT
BAYOU BLACK
BARRIER LEVEE SYSTEM

REACH 2 DETAILED PLAN VIEW

Project number	39130-1294
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Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023

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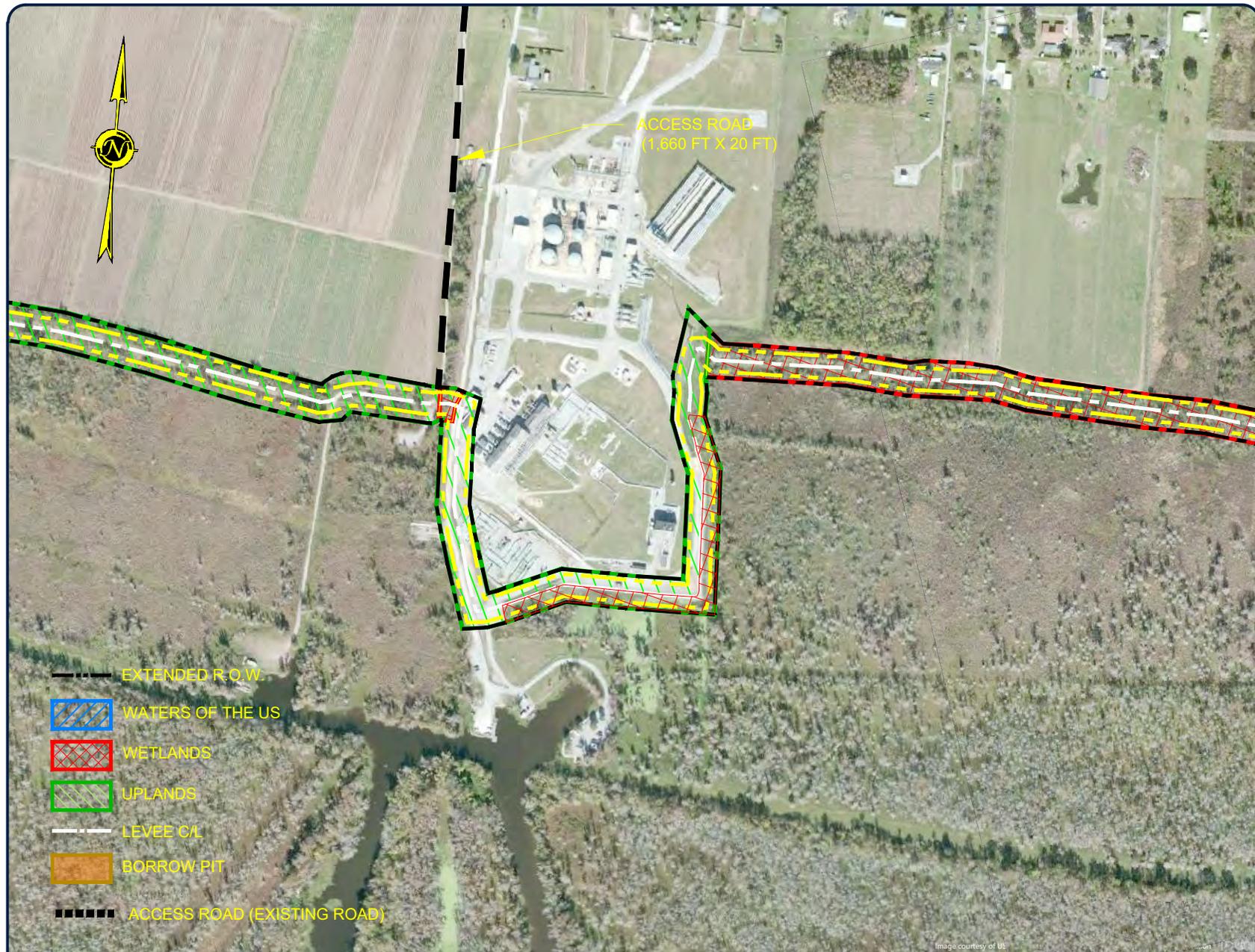
No.	Description	Date

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ENGINEER'S NAME
LA LICENSE NO. 00000

TERREBONNE LEVEE CONSOLIDATION DISTRICT
BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 2 DETAILED PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023



- EXTENDED R.O.W.
- WATERS OF THE US
- WETLANDS
- UPLANDS
- LEVEE CA.
- BORROW PIT
- ACCESS ROAD (EXISTING ROAD)

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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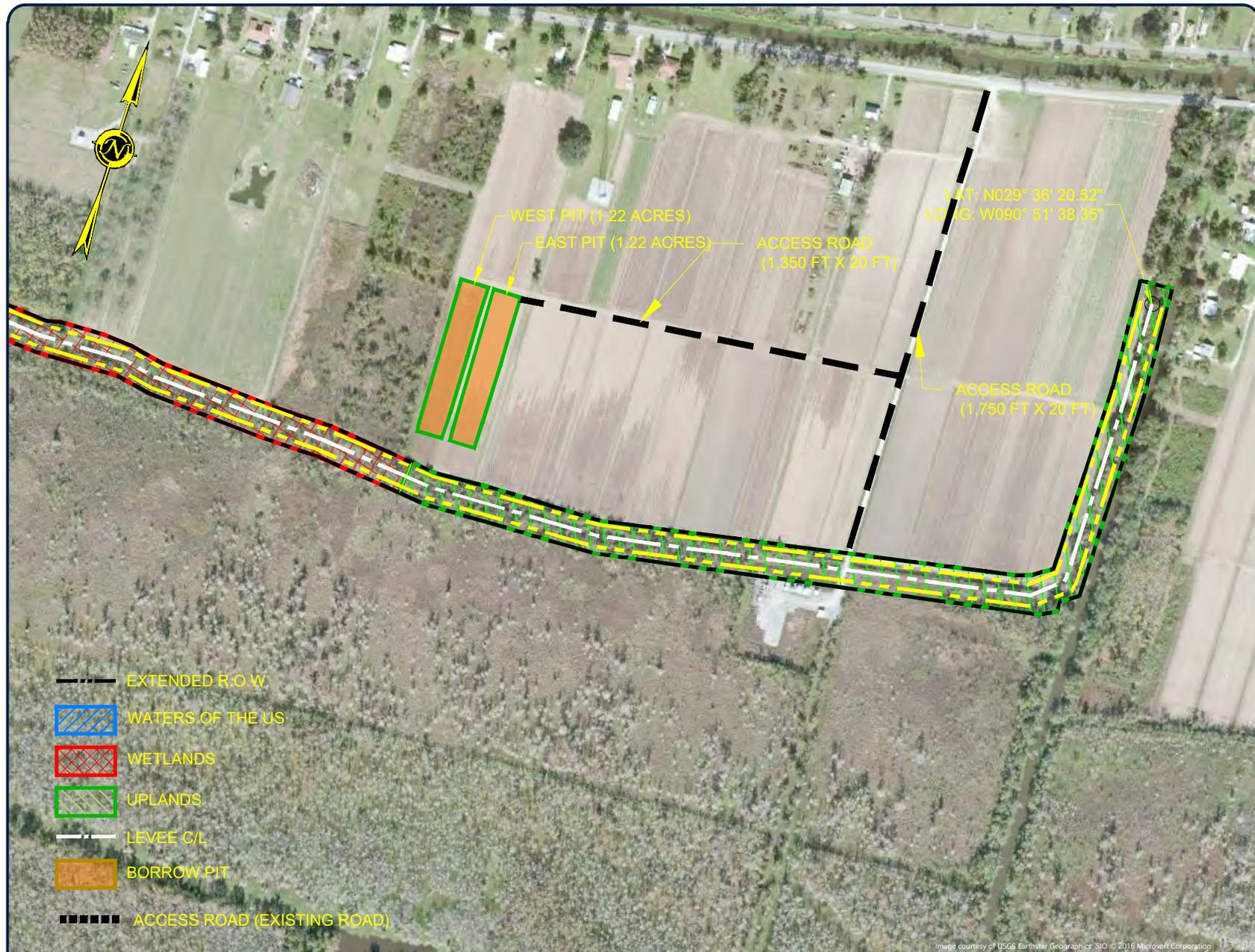
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 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

REACH 2 DETAILED PLAN VIEW

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Checked by	XXX
Plot Date	March 27, 2023



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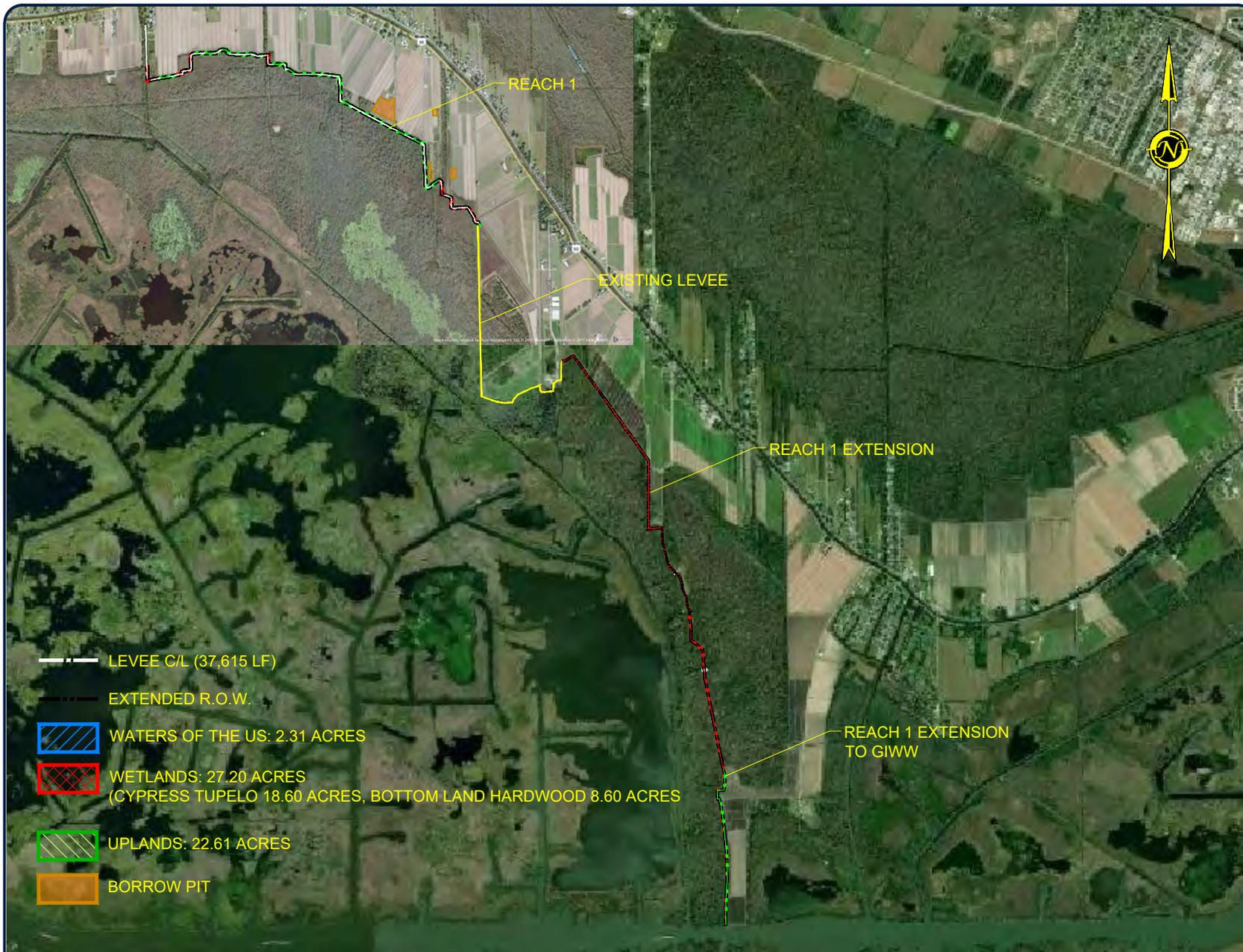
FOR PERMIT APPLICATION ONLY

ENGINEER'S NAME
 L.A. LICENSE NO. 00000

TERREBONNE LEVEE
 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

REACH 1 PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	June 13, 2023



- LEVEE C/L (37,615 LF)
- EXTENDED R.O.W.
- WATERS OF THE US: 2.31 ACRES
- WETLANDS: 27.20 ACRES
 (CYPRESS TUPELO 18.60 ACRES, BOTTOM LAND HARDWOOD 8.60 ACRES)
- UPLANDS: 22.61 ACRES
- BORROW PIT

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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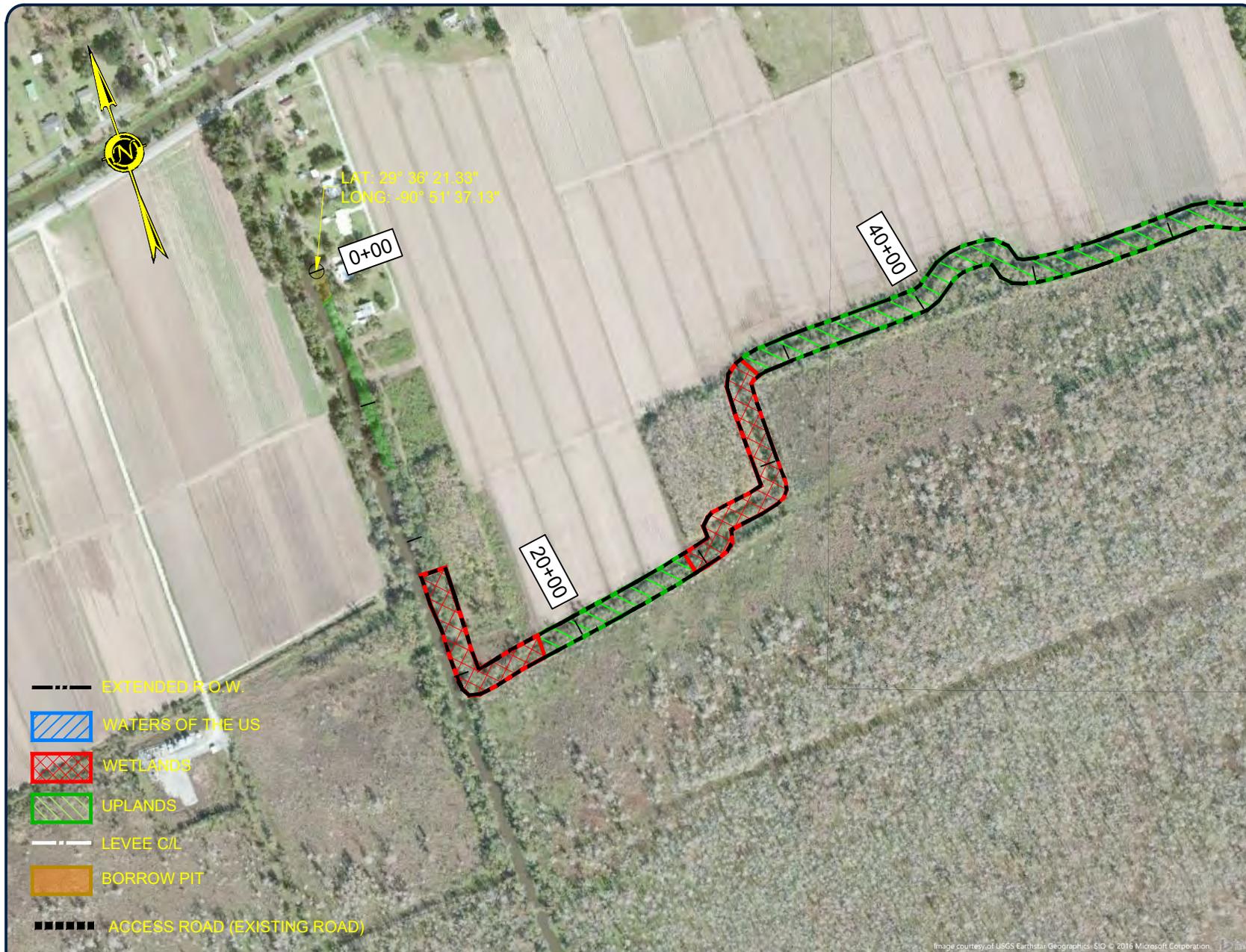
ENGINEER'S NAME
 LA LICENSE NO. 00000

TERREBONNE LEVEE
 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

**REACH 1
 DETAILED PLAN VIEW**

Project number	39130-1294
Date	DEC 2021
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Checked by	XXX
Plot Date	March 27, 2023

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- EXTENDED R.O.W.
- WATERS OF THE US
- WETLANDS
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- LEVEE C/L
- BORROW PIT
- ACCESS ROAD (EXISTING ROAD)

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



M:\Department_39\Client\TLOD-Terrebonne Levee\284- General Engineering (2021)\400- Execution\460- Drawings\461- BIM\BAYOU BLACK BARRIER LEVEE\040-DWG\3-27-2023-revisions\Reach_1 - Plan View.dwg



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REVISIONS

No.	Description	Date

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ENGINEER'S NAME:
L.A. LICENSE NO. 00000

TERREBONNE LEVEE
 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

REACH 1 DETAILED PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



M:\Department_39\Client\1100-Terrebonne Levee\1294-General Engineering (2021)\400-Execution\460-Drawings\461-DWG\Bayou Black Barrier Levee\CDI\DWG\3-27-2023-revisions\Reach 1 - Plan View.dwg



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 LA LICENSE NO. 00000

TERREBONNE LEVEE
 CONSOLIDATION DISTRICT

BAYOU BLACK
 BARRIER LEVEE SYSTEM

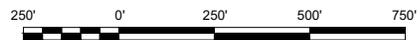
REACH 1 DETAILED PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023



- EXTENDED R.O.W.
- WATERS OF THE US
- WETLANDS
- UPLANDS
- LEVEE C/L
- BORROW PIT
- ACCESS ROAD (EXISTING ROAD)

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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No.	Description	Date

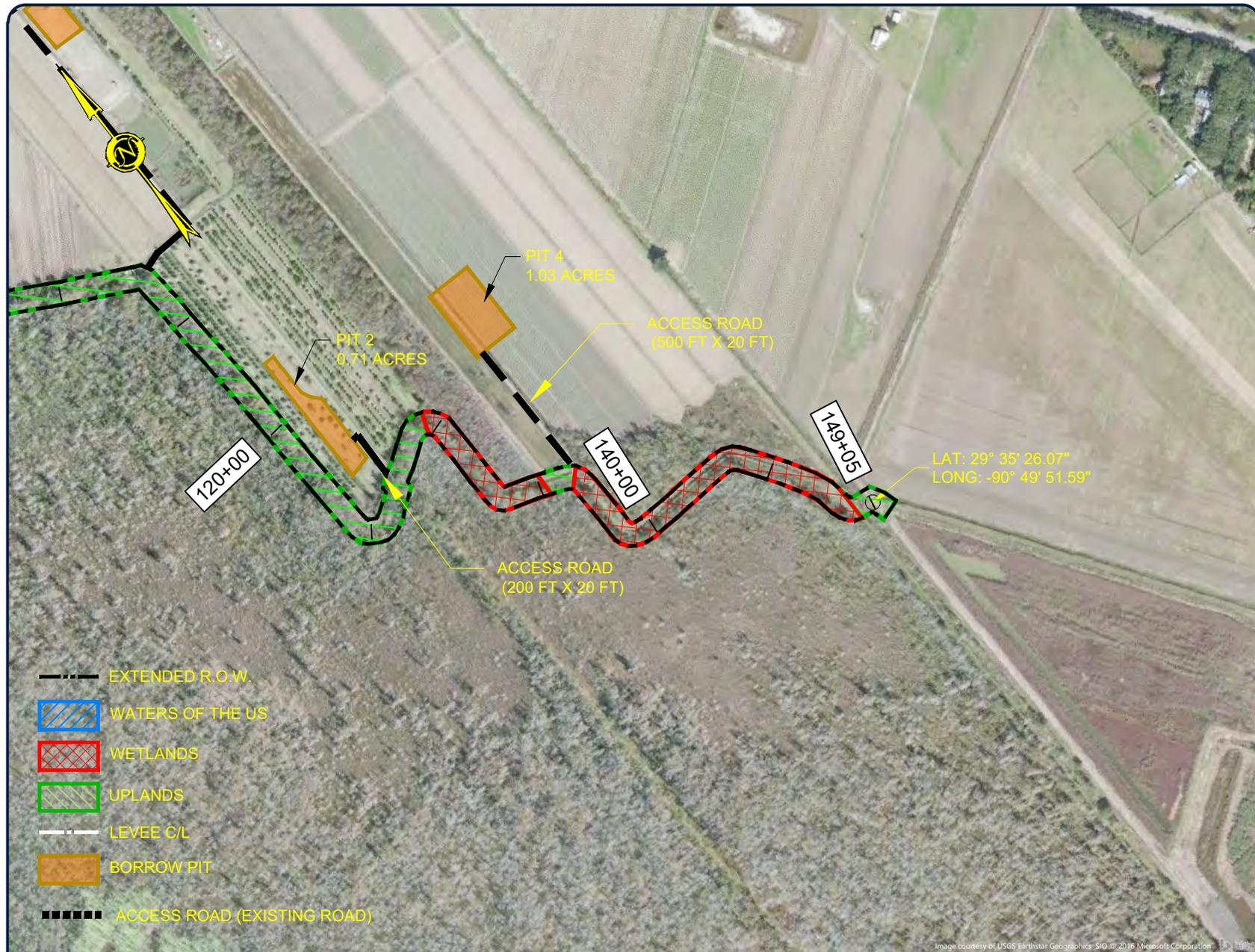
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ENGINEER'S NAME
LA LICENSE NO. 00000

TERREBONNE LEVEE CONSOLIDATION DISTRICT
 BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 1 DETAILED PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.

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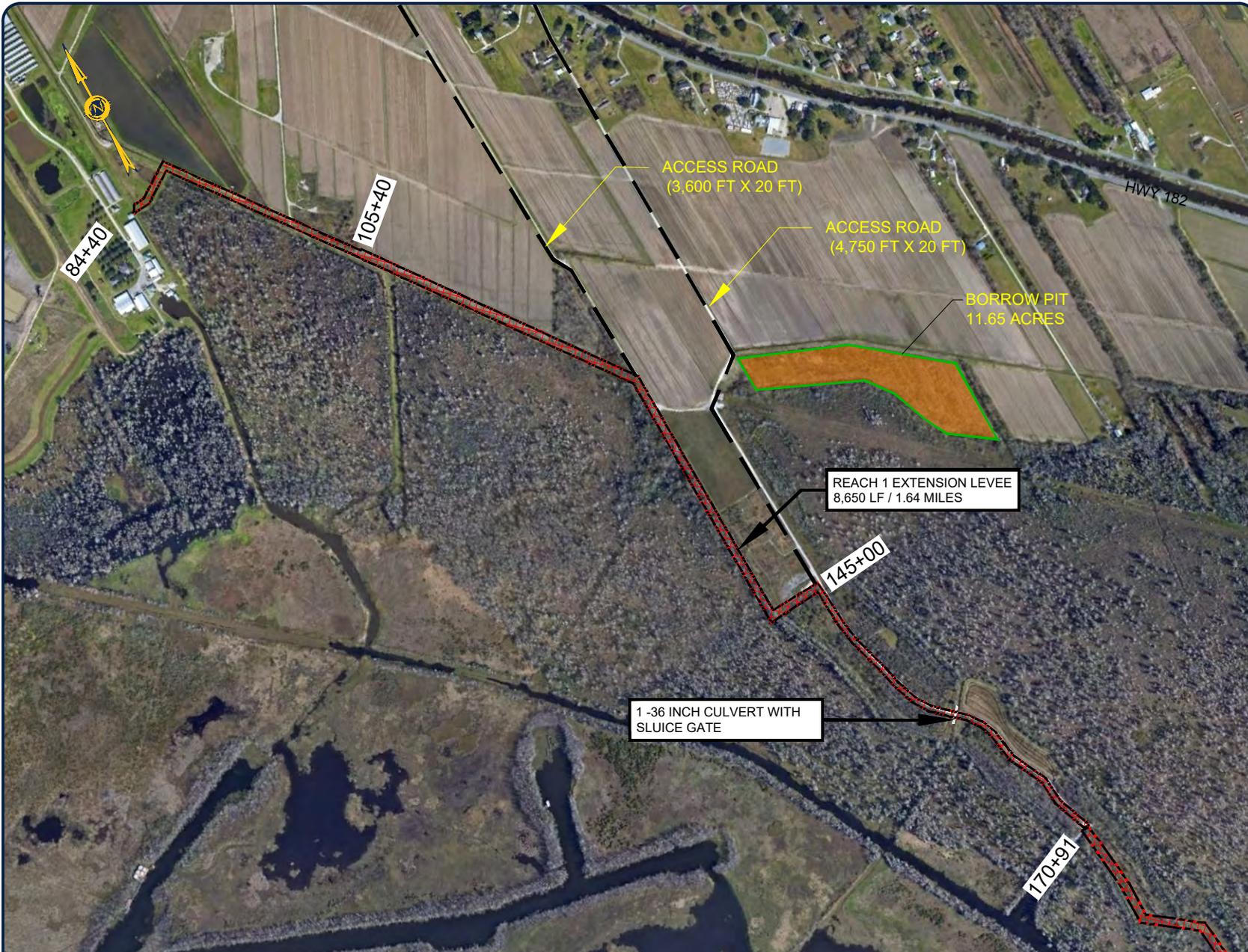
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 ACQUIRING REGULATORY PERMITS
 ENGINEER'S NAME
 LA. LICENSE NO. 00000

**BAYOU BLACK
 2019 EMERGENCY
 LEVEE ALIGNMENT**

**REACH 1 EXTENSION
 LEVEE ALIGNMENT
 PLAN**

Project number	39130-1087
Date	DEC 2020
Designed by	XXX
Drawn by	MJC
Checked by	SP
Checked by	XXX
Plot Date	March 27, 2023

34



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.

NOTE: SEE TYPICAL SECTION SHEET 38

NOTE:
 VOLUME OF MATERIAL REQUIRED = 56,450 CY

- AREA OF WETLAND IMPACTED = 4.95 ACRES
- LEVEE ALIGNMENT (8,650 LF)



M:\Department 39\Client\1100-Terrebonne Levee\1284-General Engineering (2021)\408-Execution\460-Drawings\461-DWG-Bayou Black-Barrier Levee\DWG-3-27-2023-revisions\REACH-ALIGNMENT-PLANS-EXT.dwg



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No.	Description	Date

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 ACQUIRING REGULATORY PERMITS
 ENGINEER'S NAME
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BAYOU BLACK 2019 EMERGENCY LEVEE ALIGNMENT

REACH 1 EXTENSION TO GIWW LEVEE ALIGNMENT PLAN

Project number	39130-1087
Date	DEC 2020
Designed by	XXX
Drawn by	MJC
Checked by	SP
Checked by	XXX
Plot Date	March 27, 2023

35



NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.

NOTE: SEE TYPICAL SECTION SHEET 39

NOTE:
 VOLUME OF MATERIAL REQUIRED = 76,100 CY

- AREA OF WETLAND IMPACTED = 8.5 ACRES
- LEVEE ALIGNMENT (9,208 LF)



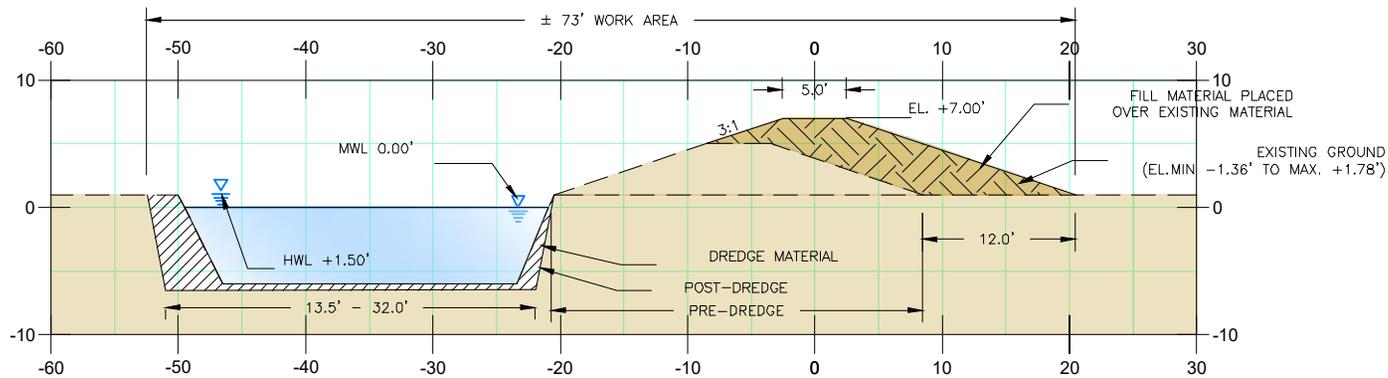
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TYPICAL CROSS SECTION - REACH 1: STA. 11+00 TO STA. 149+00



LEGEND

- NEW FILL MATERIAL
- EXISTING CONDITIONS
- EXCAVATION AREA

REVISIONS

No.	Description	Date

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ENGINEER'S NAME
LA. LICENSE NO. 00000

TERREBONNE LEVEE CONSOLIDATION DISTRICT
 BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 1 LEVEE CROSS-SECTIONS

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023

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REVISIONS

No.	Description	Date

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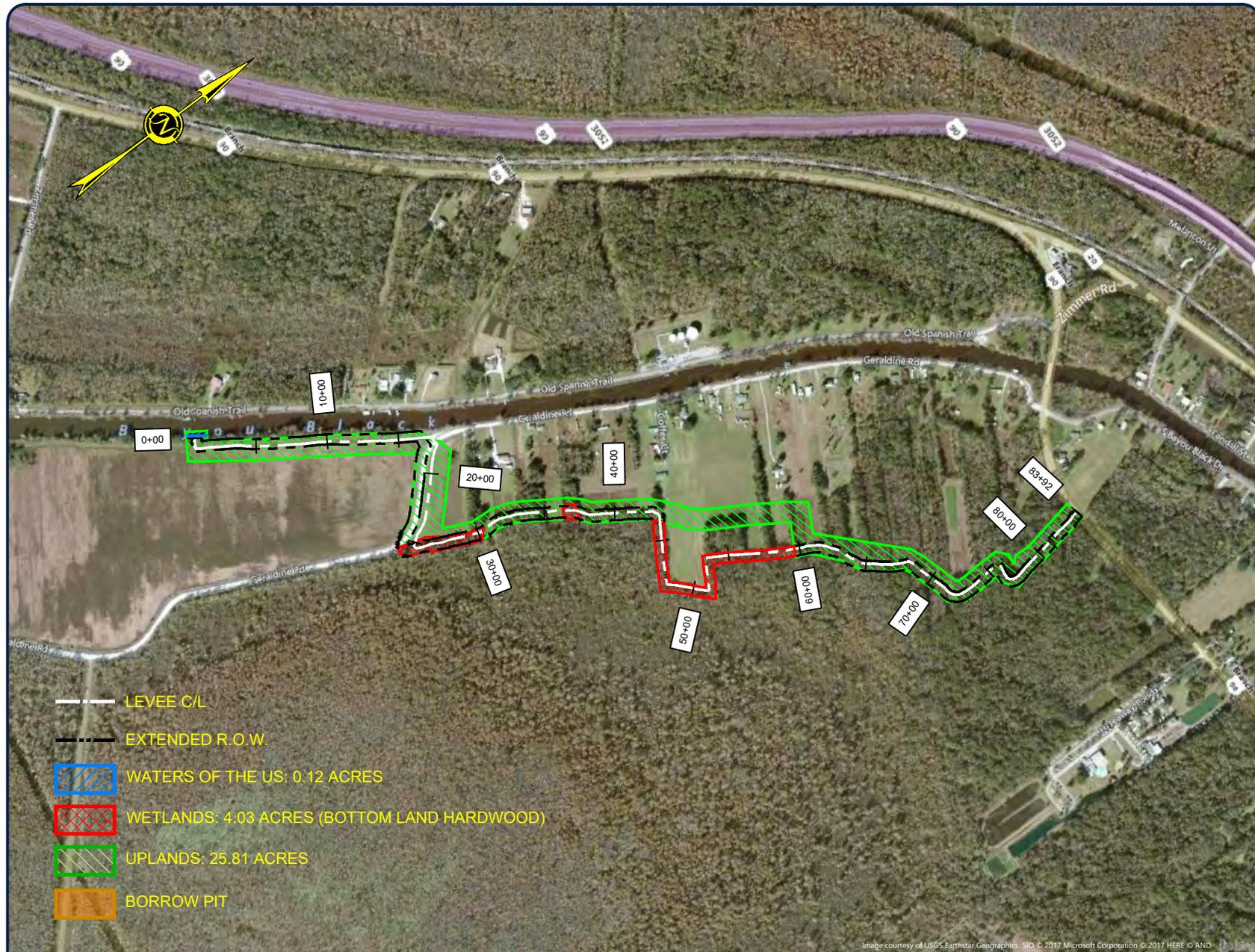
ENGINEER'S NAME
 LA. LICENSE NO. 00000

**TERREBONNE LEVEE CONSOLIDATION DISTRICT
 BAYOU BLACK BARRIER LEVEE SYSTEM**

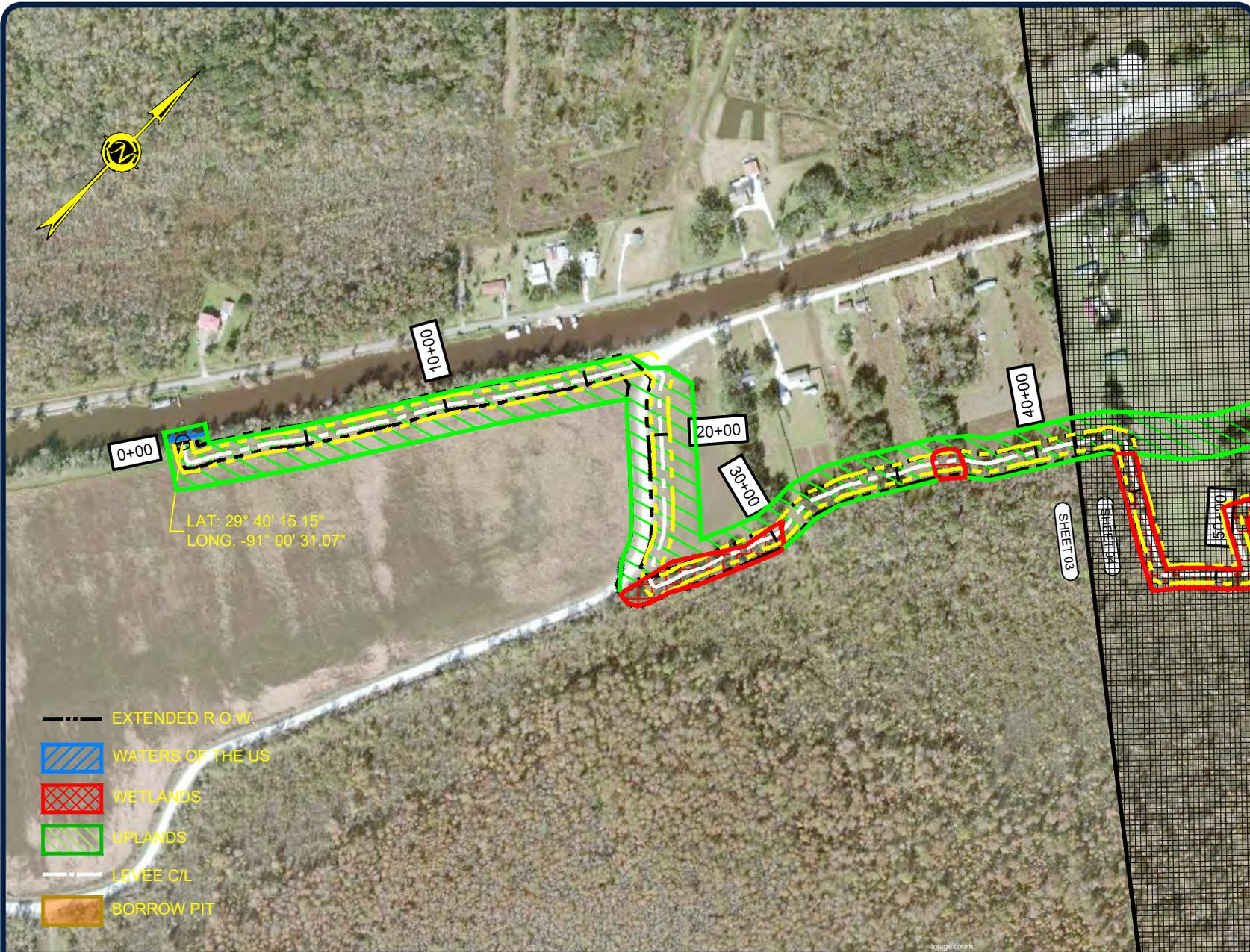
GERALDINE ALIGNMENT PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	May 1, 2023

40



M:\Department_39\Client\TCD-Terrebonne Levees\294_General_Engineering_2021\400_Execution\460_Execution\460_Drawings\461_DWSA\Bayou Black Barrier Levees\COO\DWG\Geraldine Alignment Plan.dwg



LAT: 29° 40' 15.15"
LONG: -91° 00' 31.07"

-  EXTENDED R.O.W.
-  WATERS OF THE US
-  WETLANDS
-  UPLANDS
-  LEVEE C/L
-  BORROW PIT

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



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TERREBONNE LEVEE CONSOLIDATION DISTRICT
BAYOU BLACK BARRIER LEVEE SYSTEM

GERALDINE ALIGNMENT DETAILED PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023

M:\Department_39\Client\TLOD-Terrebonne Levee\284- General Engineering (2021)\400 Execution\460 Drawings\461 DMCA\Bayou Black Barrier Levee\0461.DWG, 3-27-2023 revisions\0461.DWG - Plan View.dwg



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REVISIONS

No.	Description	Date

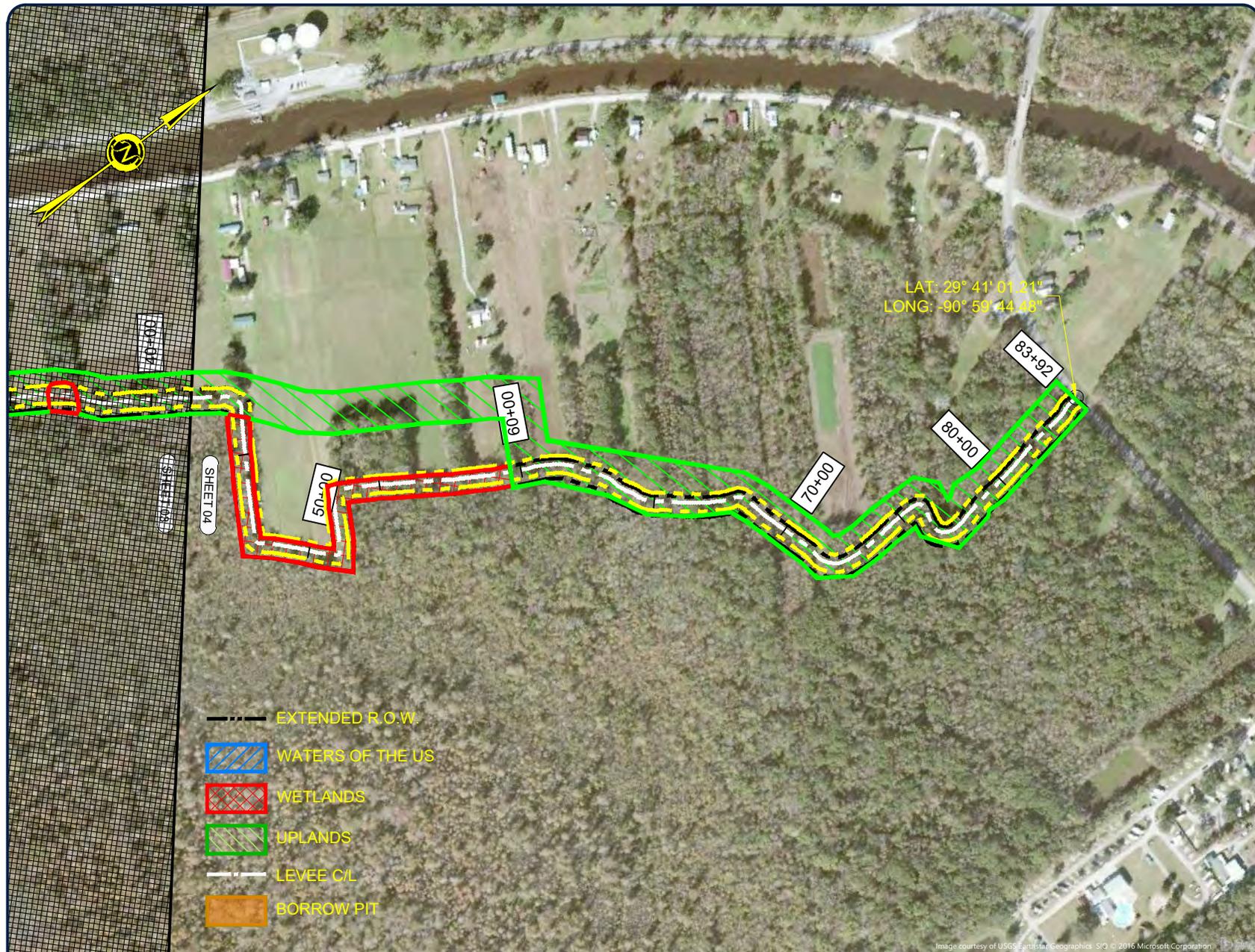
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**TERREBONNE LEVEE CONSOLIDATION DISTRICT
 BAYOU BLACK BARRIER LEVEE SYSTEM**

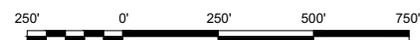
GERALDINE ALIGNMENT DETAILED PLAN VIEW

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023



- EXTENDED R.O.W.
- WATERS OF THE US
- WETLANDS
- UPLANDS
- LEVEE C/L
- BORROW PIT

NOTE: THE IMAGE ABOVE IS A GENERAL REPRESENTATION OF THE WORK AREA, ACTUAL FIELD CONDITIONS MAY DIFFER.



M:\Department_39\Client\TLOD-Terrebonne Levee\284-General Engineering (2021)\400-Execution\460-Drawings\461-DIMCA\Bayou Black Barrier Levee\CAD\DWG\3-27-2023-revisions\Geraldine - Plan View.dwg



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REVISIONS

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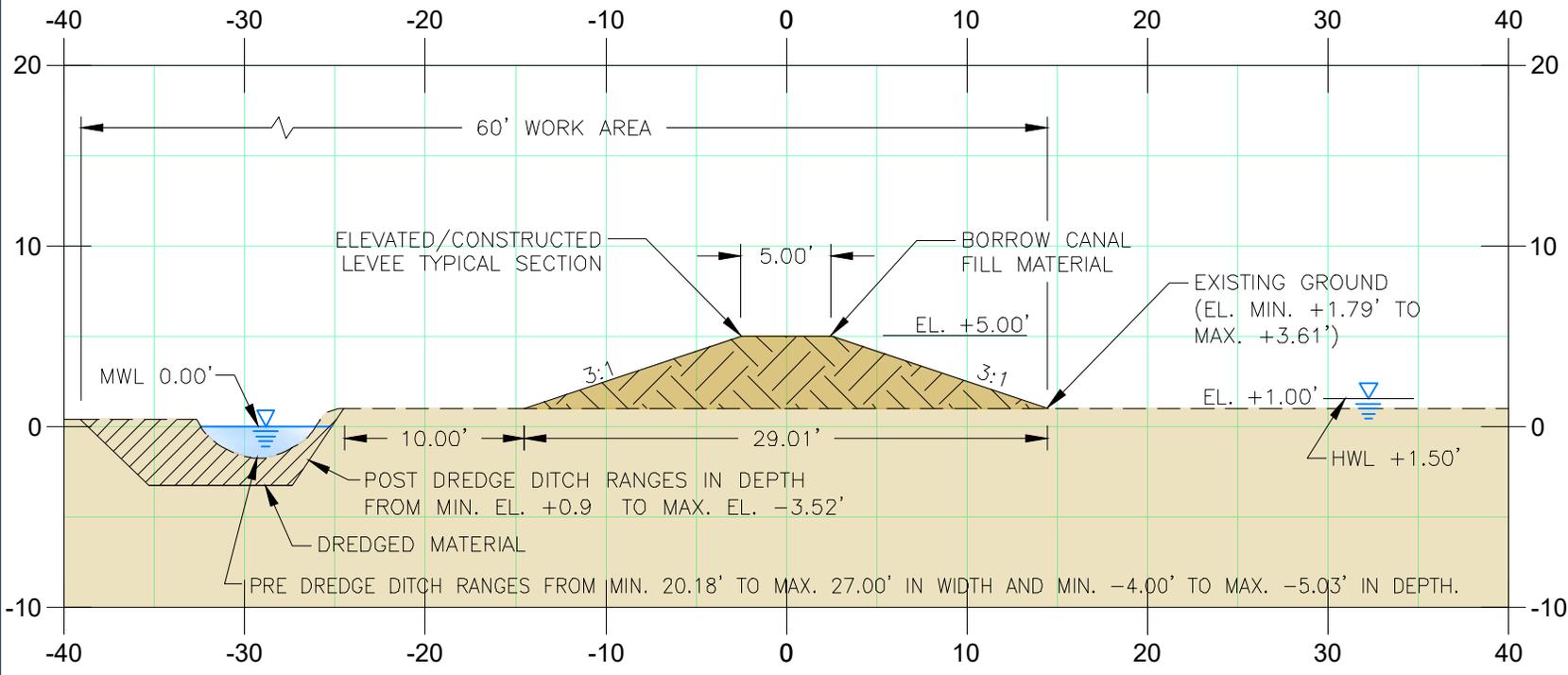
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TERREBONNE LEVEE
 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

**GERALDINE LEVEE
 CROSS-SECTION**

Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	March 27, 2023



TYPICAL CROSS SECTION GERALDINE - STA. 0+00 TO STA. 83+92

LEGEND	
	NEW FILL MATERIAL
	EXISTING CONDITIONS
	EXCAVATION AREA

NOTES:

1. CROSS SECTIONS VARY ALONG THE ENTIRE LENGTH OF THE ALIGNMENT.
2. USE TYPICAL SECTION GIVEN INITIALLY (AT PLACES WHERE THE CROSS SECTION IS NOT AVAILABLE) TO DENOTE THE WIDTH OF THE WORKING AREA.
3. NO CONSTRUCTION WORK WAS PERFORMED OUTSIDE OF THE LEVEE R.O.W.

M:\Department_39\Client\TLOD-Terrebonne Levee\1284 General Engineering (2021)\400 Execution\460 Drawings\461 DIMS\Bayou Black Barrier Levee\CAD\DWG\3-27-2023 revisions\REACH 3 TYPICAL SECTIONS.dwg



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REVISIONS

No.	Description	Date

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 LA. LICENSE NO. 00000

TERREBONNE LEVEE
 CONSOLIDATION DISTRICT
 BAYOU BLACK
 BARRIER LEVEE SYSTEM

BAYOU BLACK BARRIER
 LEVEE SYSTEM
 WETLAND IMPACTS

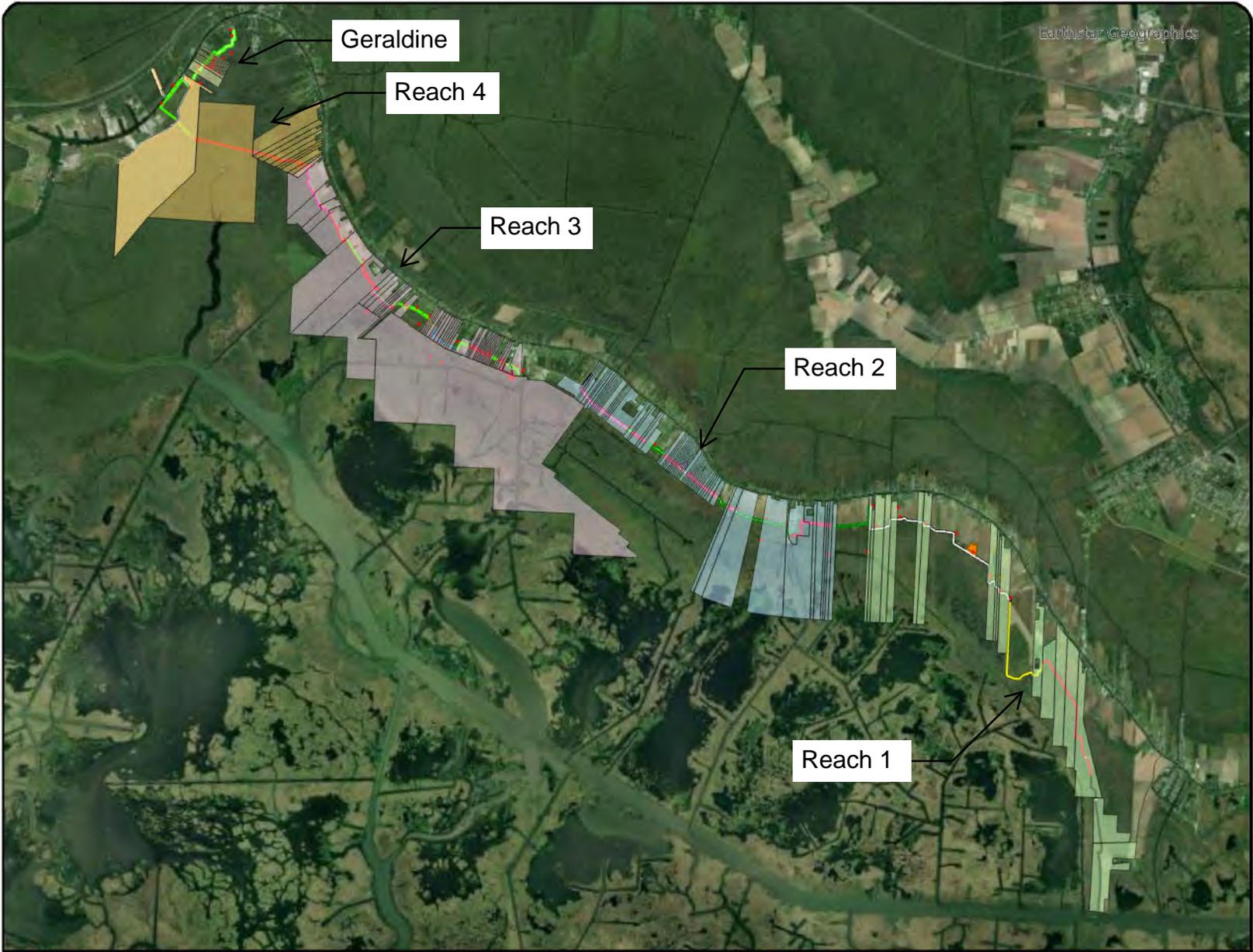
Project number	39130-1294
Date	DEC 2021
Designed by	SDP
Drawn by	SDP
Checked by	MM
Checked by	XXX
Plot Date	June 12, 2023

WETLAND IMPACT (acres)			
REACH	UPLANDS	PFO2/1F WETLANDS PFO1C	
		CYPRESS TUPELO	BOTTOMLAND HARDWOOD
REACH 1*	22.61	18.6	8.6
REACH 2	35.77	5.62	32.75
REACH 3	26.69	13.96	12.68
REACH 4**	3.67	9.45	2.62
GERALDINE	25.81	0	4.03
TOTAL	114.55	47.63	60.68

* Includes Reach 1 Extension
 **17.90 acres PFO2/1F (7795'x100'), 4.36 acres PFO1C (1900'x100')

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Earthstar Geographics

Geraldine

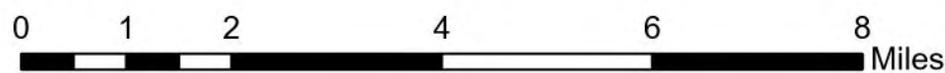
Reach 4

Reach 3

Reach 2

Reach 1

Scale: 1:115,000



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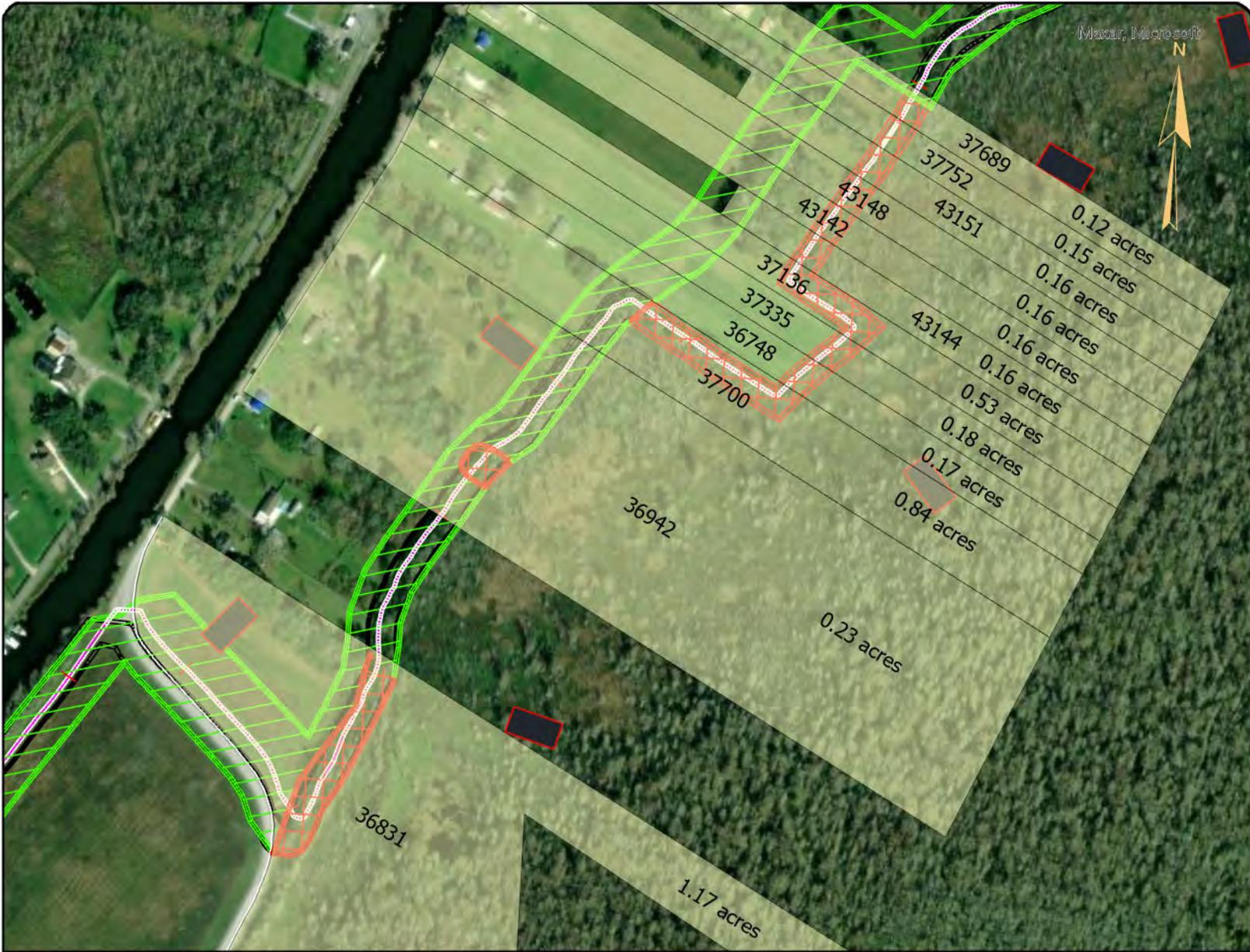
TERREBONNE LEVEE CONSERVATION DISTRICT

BAYOU BLACK BARRIER LEVEE SYSTEM

INDIVIDUAL PARCEL IMPACT

Project Number	39130-1025
Date	MAY 2023
Designed by	MCB
Drawn by	MCB
Checked by	MM
Checked by	MM
Date Printed:	June 12, 2023

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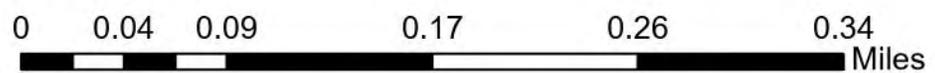
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TERREBONNE LEVEE CONSERVATION DISTRICT
 BAYOU BLACK BARRIER LEVEE SYSTEM

GERALDINE REACH

Project Number	39130-1025
Date	MAY 2023
Designed by	MCB
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Checked by	MM
Checked by	MM
Date Printed:	June 12, 2023

Scale: 1:5,000





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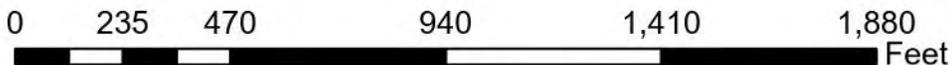
BAYOU BLACK BARRIER LEVEE SYSTEM

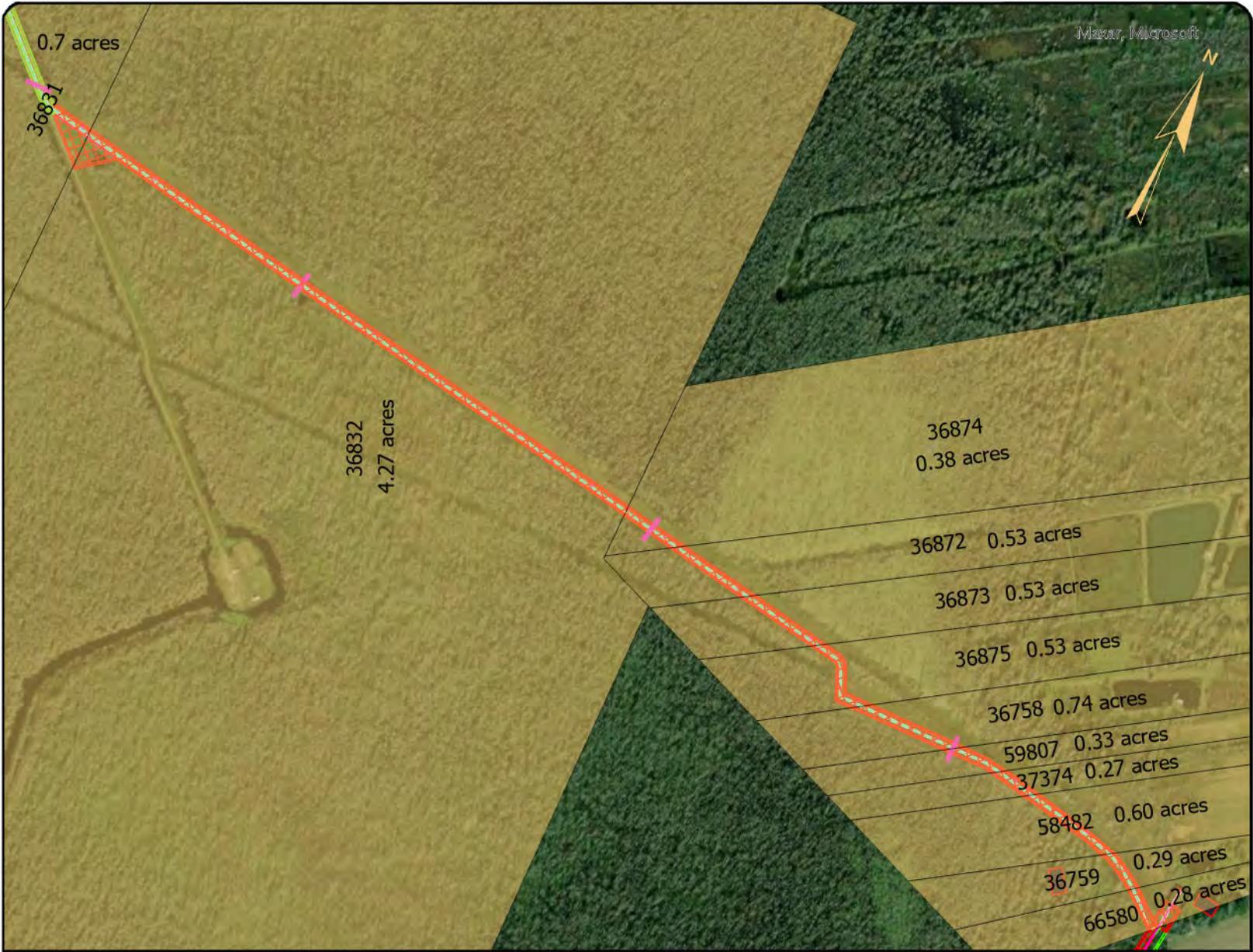
REACH 4

Project Number	39130-1025
Date	MAY 2023
Designed by	MCB
Drawn by	MCB
Checked by	MM
Checked by	MM
Date Printed:	June 12, 2023

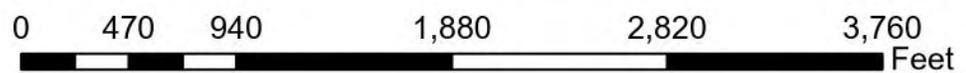
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Scale: 1:5,000





Scale: 1:10,000



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REVISIONS		
No.	Description	Date

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TERREBONNE LEVEE
CONSERVATION DISTRICT
 BAYOU BLACK BARRIER
 LEVEE SYSTEM

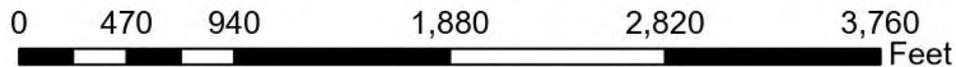
REACH 4

Project Number	39130-1025
Date	MAY 2023
Designed by	MCB
Drawn by	MCB
Checked by	MM
Checked by	MM
Date Printed:	June 12, 2023

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Scale: 1:10,000



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No.	Description	Date

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TERREBONNE LEVEE CONSERVATION DISTRICT
BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 3

Project Number	39130-1025
Date	MAY 2023
Designed by	MCB
Drawn by	MCB
Checked by	MM
Checked by	MM
Date Printed:	June 12, 2023

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No.	Description	Date

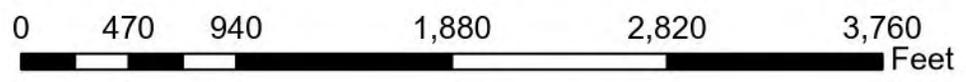
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TERREBONNE LEVEE CONSERVATION DISTRICT
 BAYOU BLACK BARRIER LEVEE SYSTEM

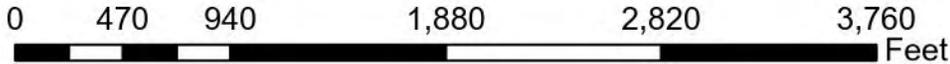
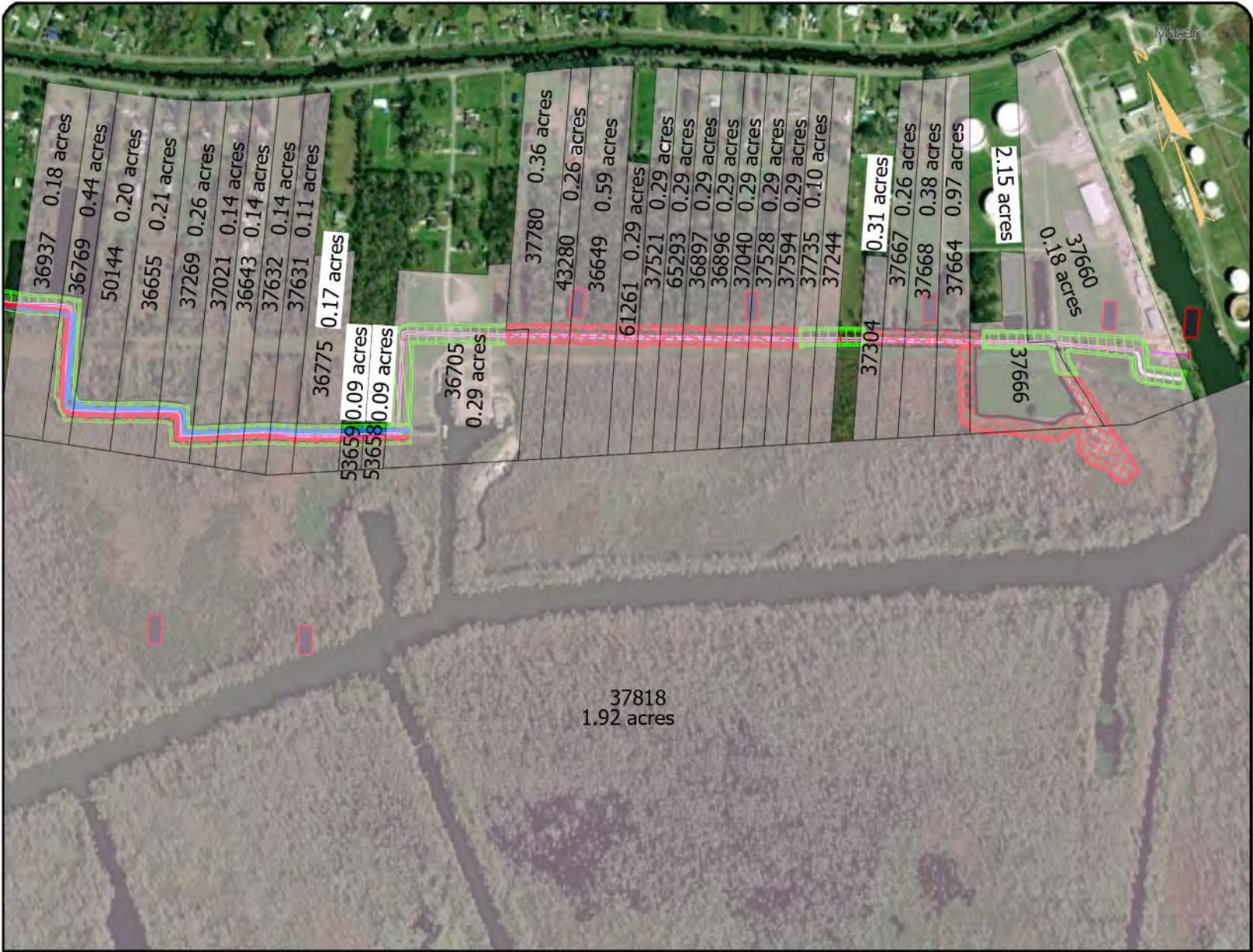
REACH 3

Project Number	39130-1025
Date	MAY 2023
Designed by	MCB
Drawn by	MCB
Checked by	MM
Checked by	MM
Date Printed:	June 12, 2023

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Scale: 1:10,000



Scale: 1:10,000



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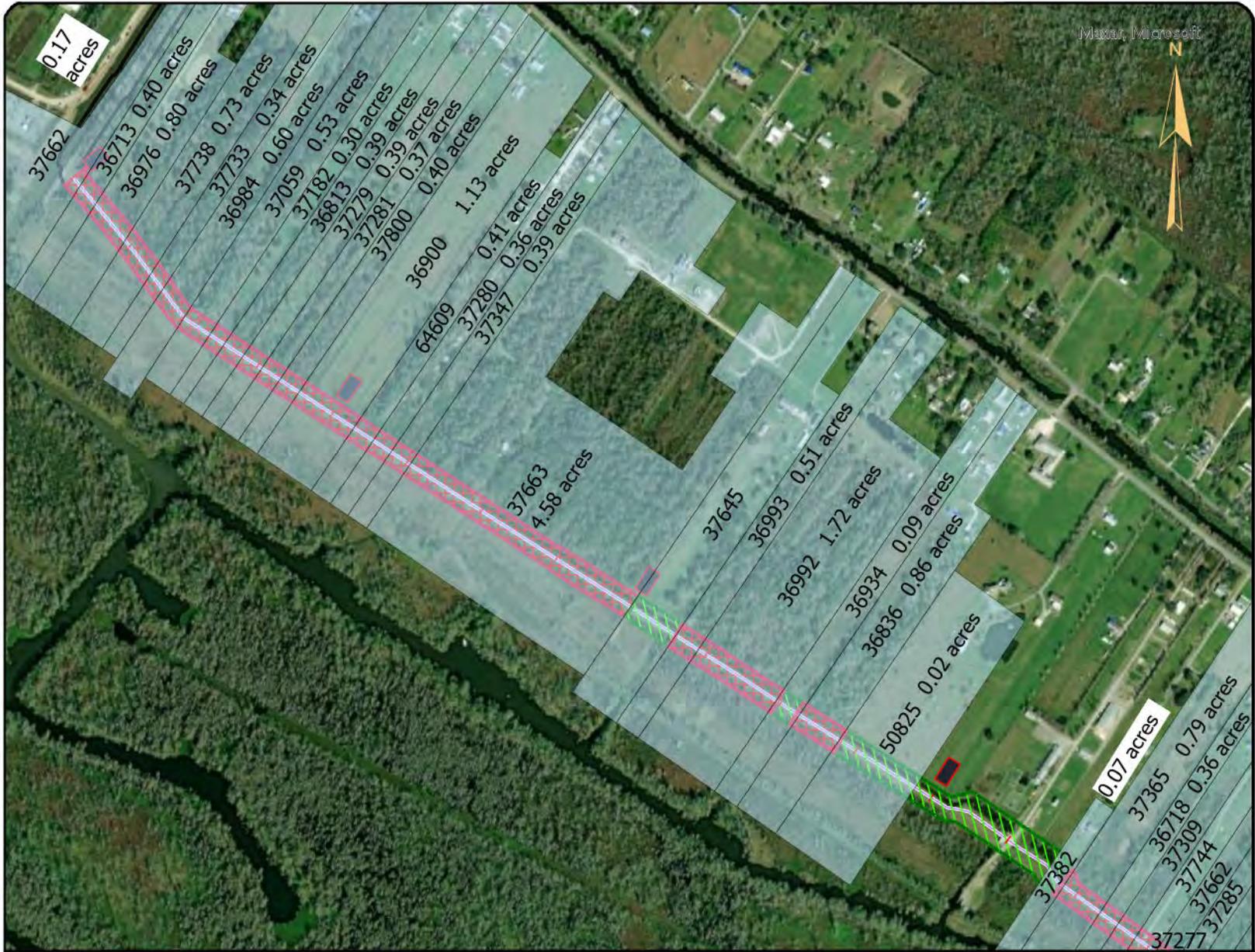
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CONSERVATION DISTRICT
 BAYOU BLACK BARRIER
 LEVEE SYSTEM

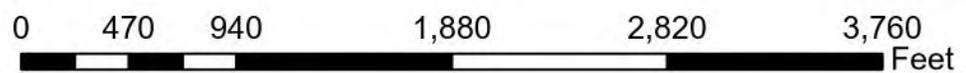
REACH 3

Project Number	39130-1025
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Drawn by	MCB
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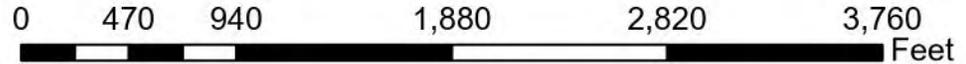
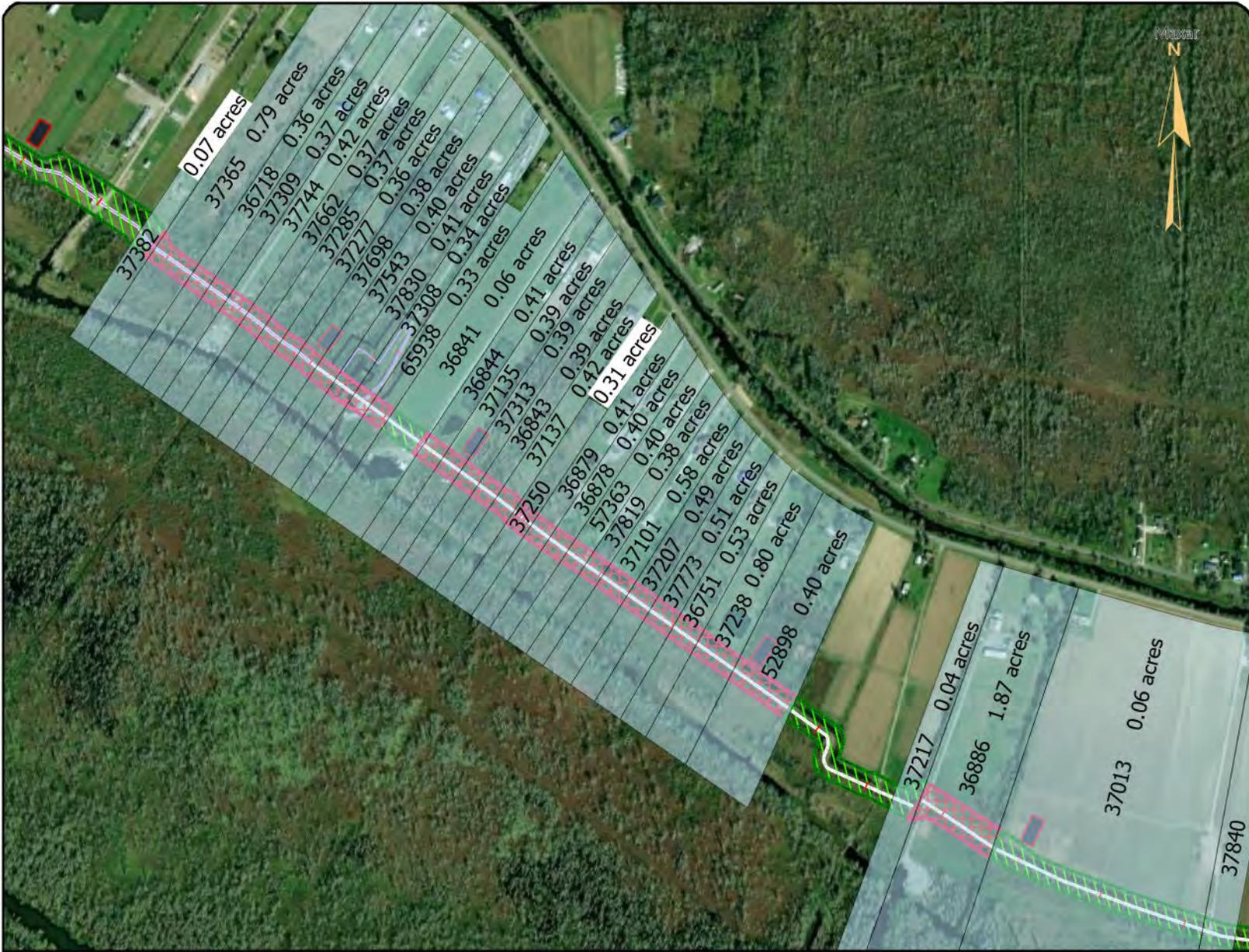
REVISIONS		
No.	Description	Date

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TERREBONNE LEVEE CONSERVATION DISTRICT
 BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 2

Project Number	39130-1025
Date	MAY 2023
Designed by	MCB
Drawn by	MCB
Checked by	MM
Checked by	MM
Date Printed:	June 12, 2023



Scale: 1:10,000



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REVISIONS		
No.	Description	Date

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TERREBONNE LEVEE
CONSERVATION DISTRICT
 BAYOU BLACK BARRIER
 LEVEE SYSTEM

REACH 2

Project Number	39130-1025
Date	MAY 2023
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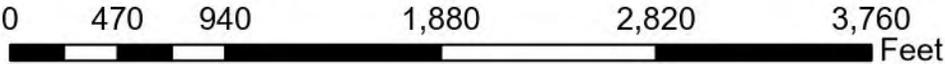
TERREBONNE LEVEE CONSERVATION DISTRICT

BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 1

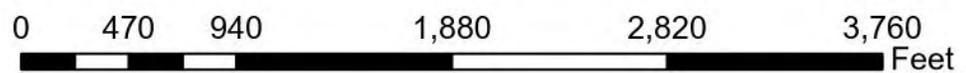
Project Number	39130-1025
Date	MAY 2023
Designed by	MCB
Drawn by	MCB
Checked by	MM
Checked by	MM
Date Printed:	June 12, 2023

Scale: 1:10,000





Scale: 1:10,000



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TERREBONNE LEVEE CONSERVATION DISTRICT
 BAYOU BLACK BARRIER LEVEE SYSTEM

REACH 1

Project Number	39130-1025
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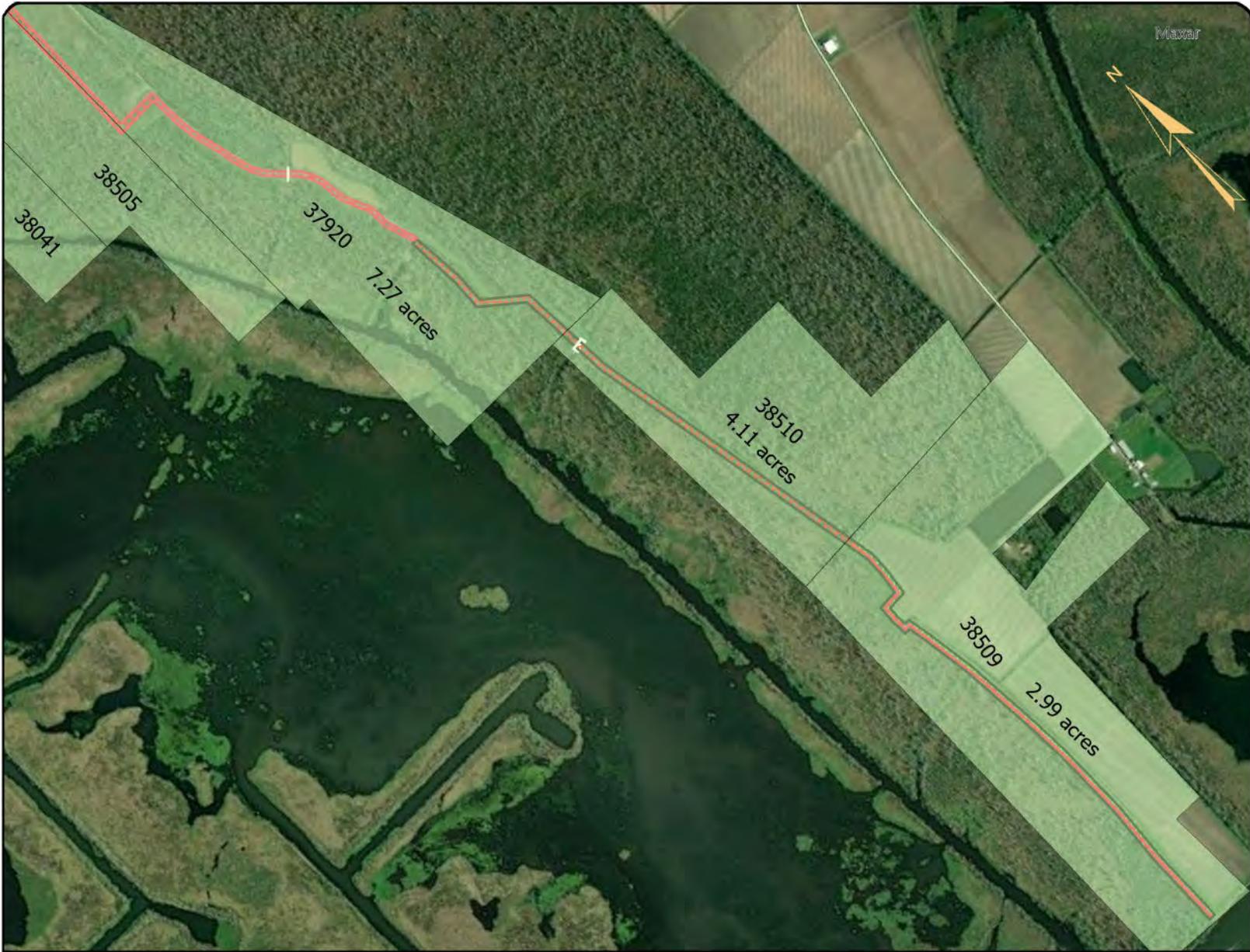
TERREBONNE LEVEE CONSERVATION DISTRICT

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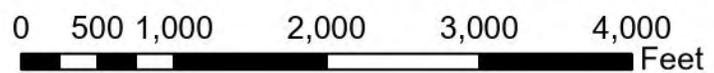
TERREBONNE LEVEE CONSERVATION DISTRICT

BAYOU BLACK BARRIER LEVEE SYSTEM

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